

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-13432
Exam Date: 07/12/2018

1. Current Owner:
STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE ID 83707-0025

2. Accompanied by: Steven Dempsey
Phone No: 208-465-8465
Address: Idaho Department of Fish and Game, Nampa, ID 83686
Relationship to permit Holder: Regional Habitat Biologist for IDFG

3. **SOURCE:**
SPRINGS
WASTE WATER

Tributary
PAYETTE RIVER
PAYETTE RIVER

Method of Determination: Field observation, information provided by Mr. Dempsey during field exam.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: **YES** Overlap

Water Right No.	Source	Purpose of Use	Basis
65-12828	Waste Water	Wildlife Storage	Decreed

Comments: WR 65-12828 overlaps the same POU and accounts for a portion of the ponds' volume capacity.

2. Other water rights with the same point-of-diversion: **NO** Overlap

Water Right No.	Source	Purpose of Use	Basis
65-12828	Waste Water	Wildlife Storage	Decreed

Comments: WR 65-12828 shares the same waste water POD from a ditch that supplements the springs that naturally fill the ponds.

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

SPRINGS SW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS NW $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS SW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County
WASTE WATER NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 34, Twp 08N, Rge 04W, B.M. PAYETTE County
SPRINGS NE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 27, Twp 08N, Rge 04W, B.M. PAYETTE County

Method of Determination: Field observation, Handheld GPS, ArcMap GIS tools

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	
08N	04W	27									X	X		X					
08N	04W	34					X												

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Method of Determination: Field observation, Aerial Imagery, ArcMap GIS tools.

3.

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

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

 N/A Aerial Photo Attached (required for irrigation of 10+ acres).

 x 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
N/A	N/A	N/A	N/A	N/A	N/A

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Measurements: N/A

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

Measured Method: N/A

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: Wildlife Storage

Pond	Acres (ac)	Avg Depth (ft)	Capacity (AF)
Swan Pond	4.20	3.0	12.6
Muskrat	8.21	3.0	24.63
Hidden Slough	1.88	3.0	5.64
Fish Pond	6.55	6.0	39.3
Helmet Pond	0.31	3.0	0.93
Gravel Pond	2.30	12.0	27.96
Island Pond	5.37	3.0	16.11
Total for 65-13432	28.82	N/A	127.17
9 th Pond (65-13433)	4.4	3.0	12.0
Total of All Ponds	33.22	N/A	139.17

G. NARRATIVE/REMARKS/COMMENTS

Field exam was conducted on July 12, 2018 by WRA Justin Shearer. He was accompanied by Steven Dempsey during the field exam. Mr. Dempsey is the Regional Habitat Biologist for the Payette Habitat District Payette WMA, IDFG.

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The wildlife storage use is for a series of 7 ponds at Birding Island in the Payette River Wildlife Management Area (Swan Pond, Muskrat Pond, Hidden Slough, Fish Pond, Helmet Pond, Gravel Pond, and Island Pond). The ponds largely fill naturally with water from springs. The ponds are supplemented with Wastewater that originates from the Langley Gulch Drain Ditch and flows through another pond, referred to as "New Pond" covered by another IDFG water right 65-13433 before entering a ditch and flowing into the series of ponds under this permit. The ponds are interconnected through a series of headgates, drains, and ditches, but water generally flows north through from New Pond, to Swan Pond, Muskrat Pond, Fish Pond, etc. However, water is capable of being moved around back and forth from more full ponds to less full ponds through a variety of headgates as needed. Overflow water eventually makes its way back into the Payette River.

The 'Ponds' and 'Springs' POD's were reported to be inundated in the center of the ponds by Mr. Dempsey during the exam. At the time of permitting in 1992, 'Ponds' was used as a source because the ponds were existing at the time the application was filed. Because this permit was applied for and permitted to cover only the evaporative losses and the base storage is covered by WR 65-12828 the 'Ponds' sources should be removed to recognize that the water appropriated from springs and on-stream wastewater provide the supplemental water needed for said losses. Water right overlap exists with senior WR 65-12828 for Wildlife Storage. According to the conditions of approval, permit 65-13432 was based upon calculated evaporative losses following the field exam for 65-12828. However, this exam revealed that pond capacity is larger than what was reported in the 1989 field exam for 65-12828. Additionally, because the wildlife storage use is on-stream, no seepage losses need to be accounted for.

The total calculated volume for the permitted POU totals 127.17 AF or 127 AF. Additionally, this permit only covers 7 out of 8 observed ponds based on the POU. Somewhat confusingly, the 8th pond locally known as "9th Pond" observed during the exam is not within the this permitted POU but is covered by permit 65-13433. Overlapping WR 65-12828 accounts for 62.4 AF of the 127 AF of calculated total volume for the 7 ponds. Subsequently, this leaves ^{36.5}64.6 AF currently unaccounted for in WR 65-12828 on the 7 ponds permitted. Therefore, I am recommending a licensed volume of 28.1 AF on this permit to account for the evaporative losses and a new application for permit to cover the additional non-permitted 36.5 AF of wildlife storage that is currently taking place across these 7 ponds.

Condition 005 was replaced by condition R05. Conditions 219 and 220 were added. Explanatory condition was modified to remove note about evaporative losses.

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 STORAGE	1/01 to 12/31		28.1 AF

Totals:

28.1 AF

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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 Justin Shearer - Water Resource Agent, Senior

Field Examiner's Name  Date 8/26/21
Reviewer  Date 2/13/2023

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Google Earth

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Location	Pond	#	Acres	Depth (	Permit
Birding Island	New Pond	1	4.34	3.00	65-13433
Birding Island	Swan Pond	2	4.20	3.00	65-13432
Birding Island	Muskrat	3	8.21	3.00	65-13432
Birding Island	Hidden Slough	4	1.88	3.00	65-13432
Birding Island	Fish Pond	5	6.55	6.00	65-13432
Birding Island	Helmet Pond	6	0.31	3.00	65-13432
Birding Island	Gravel Pond	7	2.30	12.00	65-13432
Birding Island	Island Pond	8	5.37	3.00	65-13432
Birding Island	9th Pond	9	4.62	3.00	
Birding Island	North Pond	10	4.49	3.00	65-486

Total

42.27

Permit	Permit Ac	Surface Ac	Water Ac (Surface * Depth)
65-13433	12	4.34	13.02
65-13432	28.1	28.82	951.06
65-486	5 cfs	4.49	13.47

126.81 AF

13.86

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Pic showing water from New Pond flow into Swan Pond.



Pic of Drain in Swan Pond that leads to Muskrat Pond.



Pic of Swan Pond
looking to the
South.



Pic of Muskrat
Pond looking to the
South.



Pic of ditch
carrying water from
Muskrat Pond to
Fish Pond.



Pic of Island Pond
that was lacking
water at the time of
exam. Looking
North.



Pic of Fish Pond
looking to the NE.



Pic of Fish Pond
looking to the
West.