

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: 96-9891Exam Date: 8/19/2022

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. Irrigation of 5 acres or less
 - b. Storage of up to 14.6 AF for stockwater purposes only
 - c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
 - d. Other < >

2. Current Owner: Name: Robert J. and Laura L. Goodyear
Owner of Record Correct? X Y N
Address of Record Correct? Y N
If No: Address

The Department's parcel data shows the ownership as Goodyear Trust & Goodyear, Robert J. & Laura L. & Trustees Goodyear, Robert J. & Laura L.; Goodyear Trust Trustees. I don't see any issues with the ownership of the property.

3. Beneficial Use Fees have been paid: X Y N Receipt No: N040767

4. SOURCE

Sagle Slough

TRIBUTARY

Lake Pend Oreille

Method of Determination: GIS and Tax Parcel DataChange in Source: Y X N**B. OVERLAP REVIEW**

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

Water Right No.	Source	Purpose of Use	Basis
96-8667 and 96-8777	Ground Water	Municipal	License and Adj. Claim

Comments: Water rights 96-8667 and 96-8777 are claims owned by Mountain Springs Water Corporation. I am assuming the two Mountain Springs Water Corporation rights provide the in-house use for this property, since there is no known well on the property. Well records don't show any wells being drilled after 1994, and the property wasn't developed until 2004.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: There are no other water rights with a point of diversion in this area.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Sagle Slough Pump			SE	NW	11	56N	2W	B.M.	Bonner
								B.M.	
								B.M.	

Method of Determination: GIS and Tax Parcel Data.Change in POD? X N Amendment Required? X N**2. PLACE OF USE:** Use: Domestic and stockwater

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	2W	11								2.5									2.5
		Lot #																	
Total Acres =																			2.5

Method of Determination: GIS and Tax Parcel DataChange in POU? X N Amendment Required? X N Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

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

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Slough Pump	Unknown	1.5			

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: No measurement is required for an in-house exam.

E. FLOW CALCULATIONS

___Additional Computation Sheets Attached

Measured Method:

The application for permit states that the pump that was being used is a 1.5 Hp pump with a maximum of 48 gpm or 0.11 cfs. I used the Google Earth elevation tool to determine the estimated lift and a minimum pressure of 40 psi for rainbird sprinklers to calculate an estimated diversion rate using a theoretical calculation. I also relied on the standard for irrigation use set forth by Administrative Processing Memo #17 of 0.03 cfs per acre for 5 acres or less.

Theoretical = $(1.5 \text{ Hp} \times 8.8 \times 0.70) / [25 \text{ ft lift} + (40 \text{ psi} \times 2.31)] = 0.0787 \text{ (35.3 gpm) rounded to 0.08 cfs}$
 Administrative Memo #17 = $0.03 \text{ cfs/acre} \times 2.5 \text{ acres} = 0.075 \text{ cfs rounded to 0.08 cfs.}$

Permit allowed = 0.08 cfs for irrigation use

I am recommending 0.08 cfs for irrigation as is allowed by theoretical, Administrative Memorandum #17, and that was the limits imposed by the permit.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.5 \text{ acres} \times 3.0 \text{ af/ac} = 7.5 \text{ acre-feet}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.08 \text{ cfs} \times 214 \text{ days} \times 1.835 = 34.0 \text{ acre-feet}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 7.5 \text{ acre-feet}$$

Please Note: This permit is for irrigation from a slough with flow similar to a river, so no volume is required per the Beneficial Use IDAPA Rule 37.06.02.035.01.j.

2. Volume Calculations for Other Uses:

G. PURPOSE OF USE

Irrigation ___Y___N # Stock _____ Domestic # of Homes _____

Other: < >

Change in Purpose of Use? ___Y___N

Method of Determination: Tax parcel data.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination. I was able to find 5 acres of irrigation. I don't find any issues that would prevent this permit from being licensed.

There is an issue on whether a volume is required on this water right or not. Another right on this slough licensed in 2015 had a volume, but other irrigation rights from sloughs don't have a volume. It should be noted that the other rights from sloughs without a volume were tributary to rivers and not a lake like this permit. I was not able to find any guidance on this issue, and spoke with administrative staff to determine what direction we should take on this issue. I was instructed to not put a volume on the license, since the slough is filled by a creek and there is probably water flow in the slough.

The permit holder stated in the Statement of Completion for Submitting Proof of Beneficial Use statement that he has installed a fish screen. Furthermore, the permit holder also supplied photos of the fish screen installed on the pump system.

Conditions X15, X16, X60, R66, and 004 should be carried forward to licensing. The point of diversion also falls within the borders of the permit holder's parcel, so condition X59 should be added to the license. No further conditions are required for the licensing of this permit.

Have conditions of permit approval been met? X Yes No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Irrigation	04/01 to 10/31	0.08 CFS	
<u>Totals:</u>		0.08 CFS	

Please Note: This permit is for irrigation from a slough with flow similar to a river, so no volume is required per the Beneficial Use IDAPA Rule 37.06.02.035.01.j.

2. Recommended Amendments

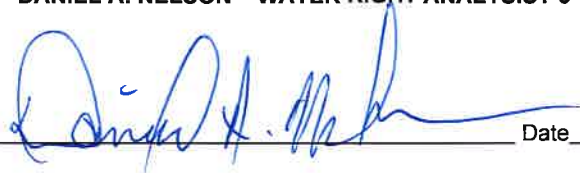
 Change P.D. as reflected above Add P.D. as reflected above X None

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

Other: < >

J. AUTHENTICATION – DANIEL A. NELSON – WATER RIGHT ANALYST 3

Field Examiner's Name



Date

8-18-2022

Reviewer

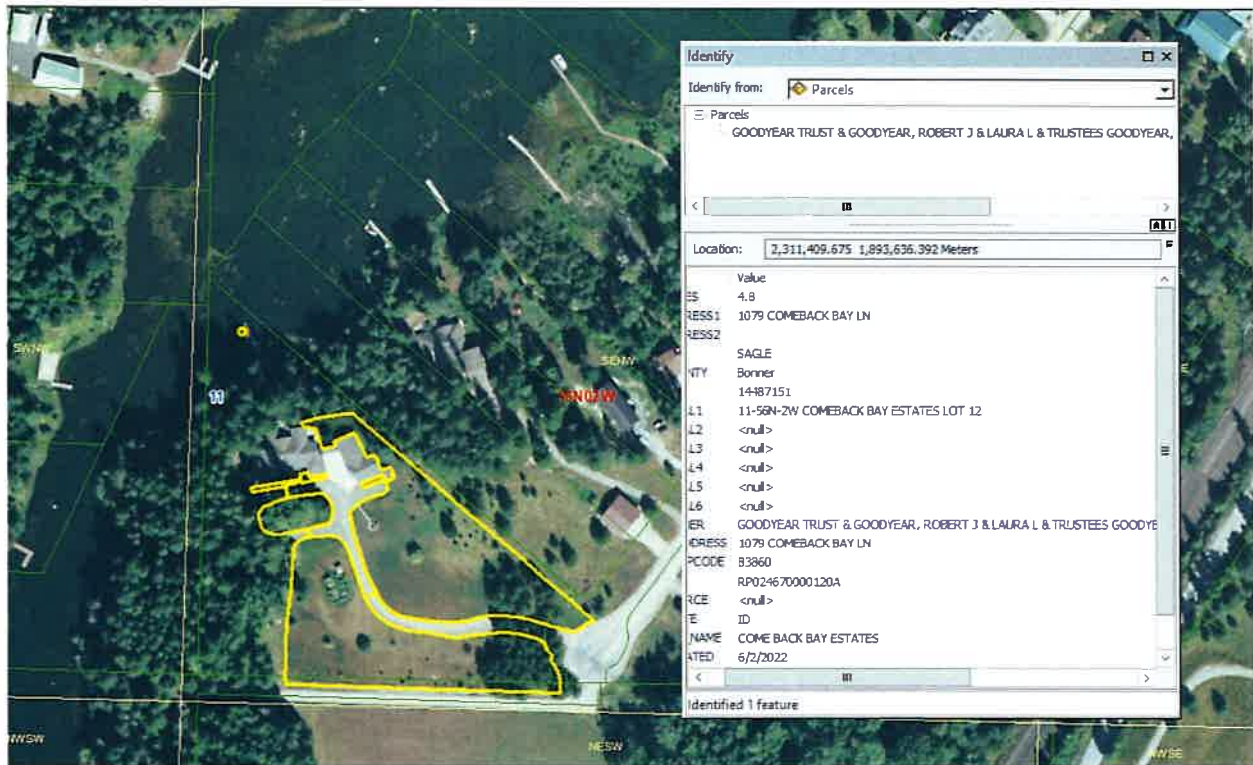


Date

8/22/22

Field Exam Map:

The yellow border shows the place of use for the domestic use and the yellow point shows the point of diversion. The parcel boundaries are shown in green. The Department's parcel data shows the ownership as Goodyear Trust & Goodyear, Robert J. & Laura L. & Trustees Goodyear, Robert J. & Laura L.; Goodyear Trust Trustees. Not all of the ownership data could be shown in the information box below.



Google Earth Elevations Calculations: It appears the lift is approximately 25 feet (2094 ft – 2069 ft = 25 ft difference).

