

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

A. GENERAL INFORMATIONPermit No: 2-10640Exam Date: 9/13/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)?
- ☒
- Yes
- ☐
- No

- a. ☒ Irrigation of 5 acres or less
 b. ☐ Storage of up to 14.6 acre-feet ("AF") for stockwater purposes only
 c. ☒ Combined diversion rate is less than 0.24 cubic feet per second ("cfs")

2. Current Owner: Name: Randolf Scholz
 Owner of Record Correct? ☒ Yes ☐ No
 Address of Record Correct? ☒ Yes ☐ No

3. Beneficial Use Fees have been paid:
- ☒
- Yes
- ☐
- No Receipt No: W052036

4. **SOURCE**

Snake River

TRIBUTARY

Columbia River

Method of Determination: GIS and information provided by Randolph Scholz ("the permit holder") for the application for permit and the Statement of Completion for Submitting Proof of Beneficial Use ("Statement of Completion").

Change in Source: ☐ Yes ☒ No**B. OVERLAP REVIEW**

1. Other water rights with the same place of use:
- ☒
- Yes
- ☐
- No

Water Right No.	Source	Purpose of Use	Basis
2-64	Snake River	Irrigation	Decree
2-65	Snake River	Irrigation	Decree
2-10416	Snake River	Irrigation	License
2-10515	Snake River	Irrigation	Permit

Comments: The Water Rights listed in the table above are owned by Gem Irrigation district. The Gem Irrigation Service area overlaps with the place of use ("POU") of this permit, but the permit holders may not have irrigation shares. The authorized domestic and irrigation uses of this permit appear to be new uses within the overlapping place of use boundaries. The total irrigation within this permit's POU can be limited to a standard rate and volume per acre to ensure conservation of water resources. Other authorized water uses do not overlap with the property boundaries of the POU for this permit.

2. Other water rights with the same point(s) of diversion:
- ☒
- Yes
- ☐
- No

Confirmed overlap by permit holder

Water Right No.	Source	Purpose of Use	Basis
2-7087	Snake River	Irrigation	Decree
2-7210	Snake River	Irrigation	Decree
2-10646	Snake River	Domestic, Irrigation	Permit

Comments: Based on my conversation with the permit holder on September 10, the table above lists the authorized uses that use the same diverting works. Mr. Scholz said that the same 30-horsepower pump is used to provide water within the Clark Island Subdivision. With the Statement of Completion, Mr. Scholz provided a diagram of the diverting works that includes other properties within the subdivision (See "Overall Schematic – Clark Island Subdivision" attached to this report.)

PODs listed as overlapping, but may not overlap

Water Right No.	Source	Purpose of Use	Basis
2-7211	Snake River	Irrigation	Decree
2-10586	Snake River	Irrigation	Decree

Comments: In our conversation from September 10, the permit holder stated that there is a separate intake pipe, pump, and electrical box for the water rights diverting to the pivots irrigating land next to the Clark Island Subdivision. The separate electrical boxes and a separation of the diverting works can be seen in a photo labeled "Beginning Clark Island Underground" that was submitted by the user (Jun 24, 2024 – attached). In contrast to the comments from the permit holder, the conditions on the water rights listed above include:

"The following rights are also diverted through point of diversion described above: 2-7087, 2-7210, 2-7211 and 2-10586."

My review did not include an on-the ground inspection. I am unable to confirm that water rights 2-7211 and 2-10586 use a separate POD and diverting works than those for this permit.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Snake River	6		NW	SE	13	03N	05W	B.M.	Owyhee

Method of Determination: GIS and photographs of the diverting works provided by the permit holders.

Change in POD? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

2. PLACE OF USE: Use: Domestic and Irrigation. The POU's for this permit include unsurveyed accretion land next to the Snake River. The quarter-quarter description has been protracted from the adjacent public land survey.

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
03N	05W	13														D			
03N	05W	13														D			
03N	05W	13														.9			.9
03N	05W	13														1.7			1.7
Total Acres =																			2.6

Method of Determination: GIS analysis of developed acres within parcel boundaries as identified by this permit.

Change in POU? ☐ Yes ☒ No

Amendment Required? ☐ Yes ☒ No

3. Diversion System Information:

Description:

☒ Delivery System Diagram Attached. (mark all major components and distances between components)

☒ Aerial Photo Attached (required)

☒ Photo of Diversion and System Attached

☒ Map clearly identifying POD and POU

3. Well or Diversion Identification No.*	Pump Make	Part Number	Frame	Serial number	HP
Clark Island Pump	Century Pump	6-323052-01	286TCZ	Unknown	30

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

D. FLOW MEASUREMENTS

1. Measurements: Because this permit qualifies for an in-office examination, no flow measurements were taken.

E. FLOW CALCULATIONS

No Additional Computation Sheets Attached

Measured Method: The permit holders stated that they have a 30-horsepower pump, which I used for calculations of a theoretical diversion rate (Q).

$$Q = \frac{\text{Conversion Factor to cfs} * \text{Efficiency of pump (\%)} * \text{Horse Power}}{\text{depth to water} + \text{conversion factor of psi to feet of head} * \text{psi}}$$

$$Q = \frac{8.8 * 0.7 * 30}{20 + 2.31 * 50}$$

$$Q = 1.365 \text{ cfs}$$

The following values in the theoretical equation are estimates and were not measured: Efficiency of pump (70%), depth to water (20 ft), and a common lower end pressure rating irrigation (50 psi).

The calculated theoretical diversion rate for a 30-horsepower pump appears to be sufficient for the combined diversion rate of the authorized diversions for the Clark Island Subdivision (Water Right Nos. 2-7087 (0.6 cfs), 2-721- (0.35cfs) and Permit Nos. 2-10640 (0.12 cfs) and 2-10646 (0.15 cfs)).

$$\begin{aligned} \text{Clark Island Subdivision diversions} &= 0.6 \text{ cfs} + 0.35 \text{ cfs} + 0.12 \text{ cfs} + 0.15 \text{ cfs} \\ &= 1.23 \text{ cfs} \end{aligned}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.6 \text{ acres} \times 4.5 \text{ AF / acre} = 11.7 \text{ AF}$$

$$\begin{aligned} V_{D.R.} &= [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 \text{ AF / (day} \times \text{cfs)} \\ &= 0.03 \text{ cfs} \times 260 \text{ days} \times 1.9835 \text{ AF / (day} \times \text{cfs)} = 15.5 \text{ AF} \end{aligned}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 11.7 \text{ AF}$$

Comments: Pursuant to IDAPA 37.03.02.035.01, a volume is not required for irrigation use from a natural stream.

2. Volume Calculations for Other Uses: Domestic use for one home = 0.6 AF per year.

Comments: For Domestic use where irrigation is separated, Administrator's Memorandum – Application Processing # 22 – "Definition of "Domestic" " recommends an annual diversion volume of 0.6 AF.

3. Total Volume: N/A irrigation use from a natural stream is exempt from volume reporting so there should not be a total volume.

G. PURPOSE OF USE

Domestic use for 1 home and Irrigation of 2.6 acres. The application for permit described the proposed beneficial uses as "Water for one household and irrigation of pastures."

Change in Purpose of Use? ☐ Yes ☒ No

Method of Determination: Description of the proposed use in the application for permit, diagrams of the diverting works submitted with the Statement of Completion and GIS analysis of developed acres of irrigation.

H. NARRATIVE/REMARKS/COMMENTS

Randy Scholz ("the permit holder") submitted the Statement of Completion for Submitting Proof of Beneficial Use ("Statement of Completion") on June 24, 2024. Because this permit authorizes a diversion rate less than 0.24 cubic feet per second ("cfs") and the irrigation of less than 5 acres, Permit No. 2-10640 ("this permit") can be licensed through an in-office examination of beneficial use (IDAPA 37.03.02.035.01.r).

The application for permit was originally numbered as application for permit no. 57-12093 before being changed to application for permit no. 2-10640. The change in application numbers recognizes that the water source is the Snake River.

In my conversation with the permit holder on September 10, 2024, Mr. Scholz said that the application for permit was filed

seeking authorization from the Department of Water Resources for an existing water use. Mr. Scholz said that within the subdivision, water use in the properties along the river had been overlooked in previous filings with the Department. The diverting works include a 30-horsepower pump that delivers water to several properties throughout the Clark Island Subdivision. Diverting works used by this permit were in place prior to the application for permit. The permit holder submitted a "Memorandum of Understanding and Written Agreement / Permission" (received on October 11, 2022) to confirm that the permit holder has been granted permission to access the point of diversion ("POD"). The memorandum was signed by the property owners of the granting access to the POD (John and Christel Clapier) and signed by permit holder and his wife, Radolph and Sheri Scholz.

The uses developed under this permit are domestic use for one (1) home, and the irrigation of 2.6 acres "of pasture". Portions of the places of use ("POUs") for this permit include unsurveyed accretion land next to the Snake River. The quarter-quarter descriptions for the POD and POUs have been protracted from the adjacent public land surveys. The boundary for the POU for domestic use was based on the parcel boundaries for parcel number RP03N05W138451.

The permit authorized up to 3.1 acres of irrigation, but I am recommending a reduction in the number of acres to 2.6 for licensing, based on GIS analysis of satellite imagery of the permit holder's property. The property has a total acreage of 3.1 acres. Accounting for the home and other non-irrigated portions of the property, the observed area of irrigation is 2.6 acres. Four pages of documents submitted by the permit holder are attached to this review as evidence of the developed beneficial uses. The attached pages include photographs, diagrams and descriptions of the diverting works for this permit.

I recommend a maximum diversion rate of 0.12 cfs for the combined developed uses. A standard diversion rate for domestic use is 0.04 cfs (Idaho Code §42-111). I recommend 0.08 cfs for irrigation following the standard acceptable rate of diversion for irrigation of 0.03 cfs / acre for the irrigation of 5 acres or less ("Administrator's Memorandum – Application Processing #17 – "Acceptable Rates of Irrigation for Small Acreages").

I recommend an annual diversion volume of 0.6 AF for domestic use for 1 home. Irrigation use from the Snake River is exempt from volume reporting.

Conditions of approval

The four conditions for approval on the permit will be carried forward to the license.

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

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>	<u>ACRES</u>
Irrigation	03/01 to 11/15	0.08 CFS		2.6 acres
Domestic	01/01 to 12/31	0.04 CFS	0.6 AF	
Totals		0.12 CFS		2.6 acres

2. Recommended Amendments

___ Change POD as reflected above ___ Add POD as reflected above **X** None

___ Change POU as reflected above ___ Add POU as reflected above **X** None

Other:

J. AUTHENTICATION – David Betts, Water Resource Agent

Field Examiner's Name David Betts Date 12/11/2024

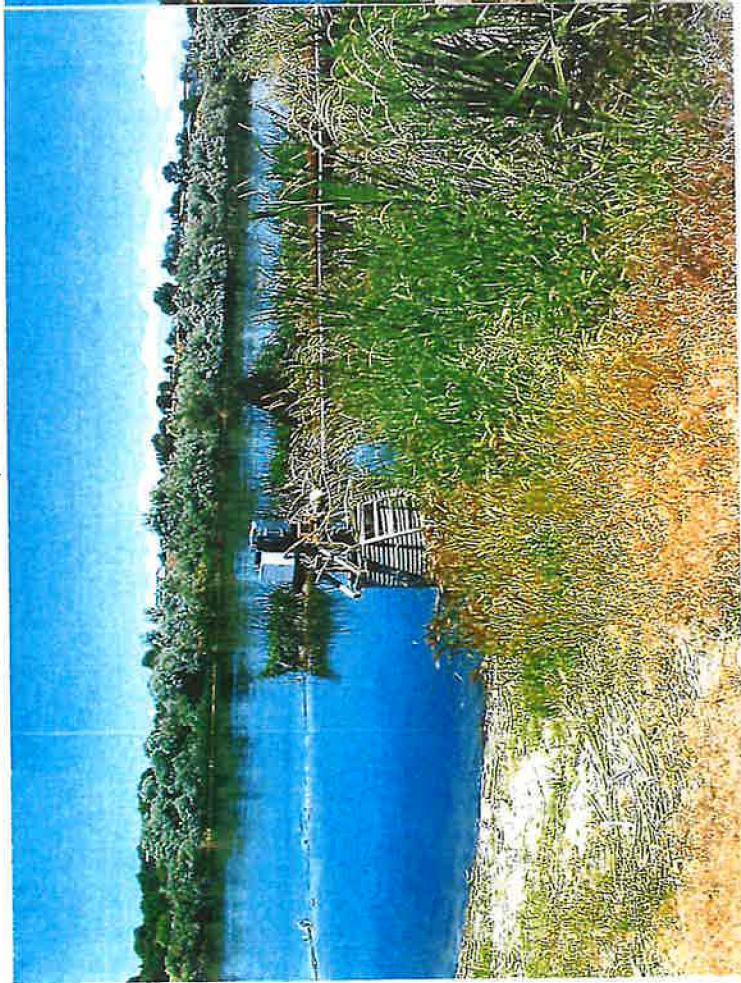
Reviewer PK Date 12/11/24

Field Exam Map

The map below displays location of the Clark Island Pump (yellow place-marker) at the authorized point of diversion. The yellow outline is the boundaries of the irrigation place of use, within the parcel boundaries owned by the permit holders. Domestic use (not drawn) are the parcel boundaries that encompass the irrigation POU.



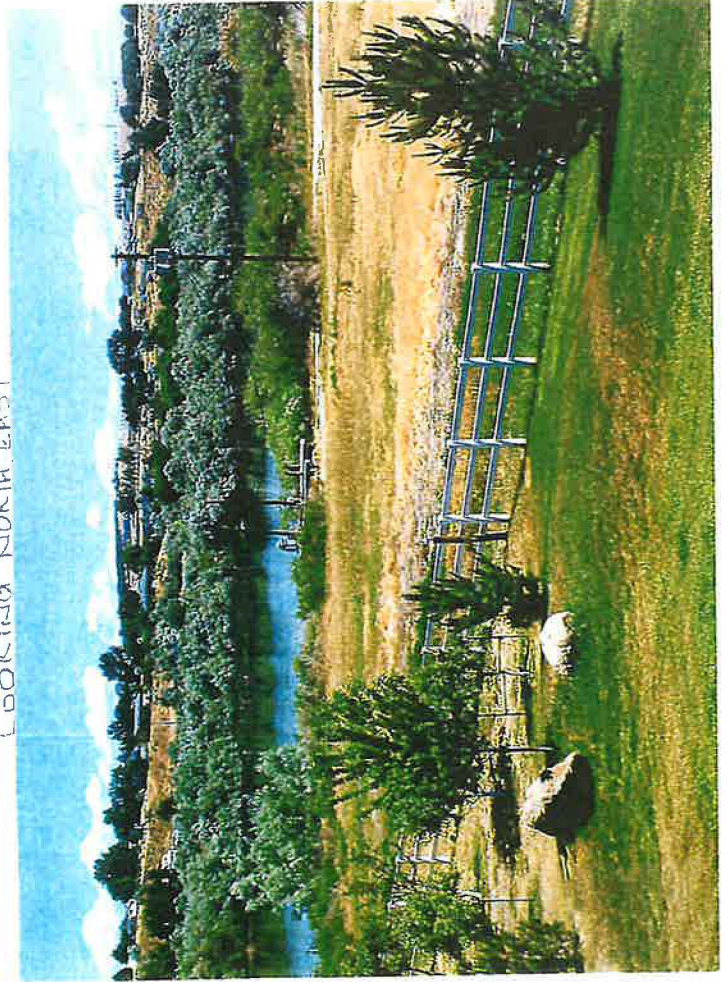
CLARK ISLAND PUMP.



BEGINNING CLARK ISLAND UNDERGROUND



LOOKING NORTH EAST



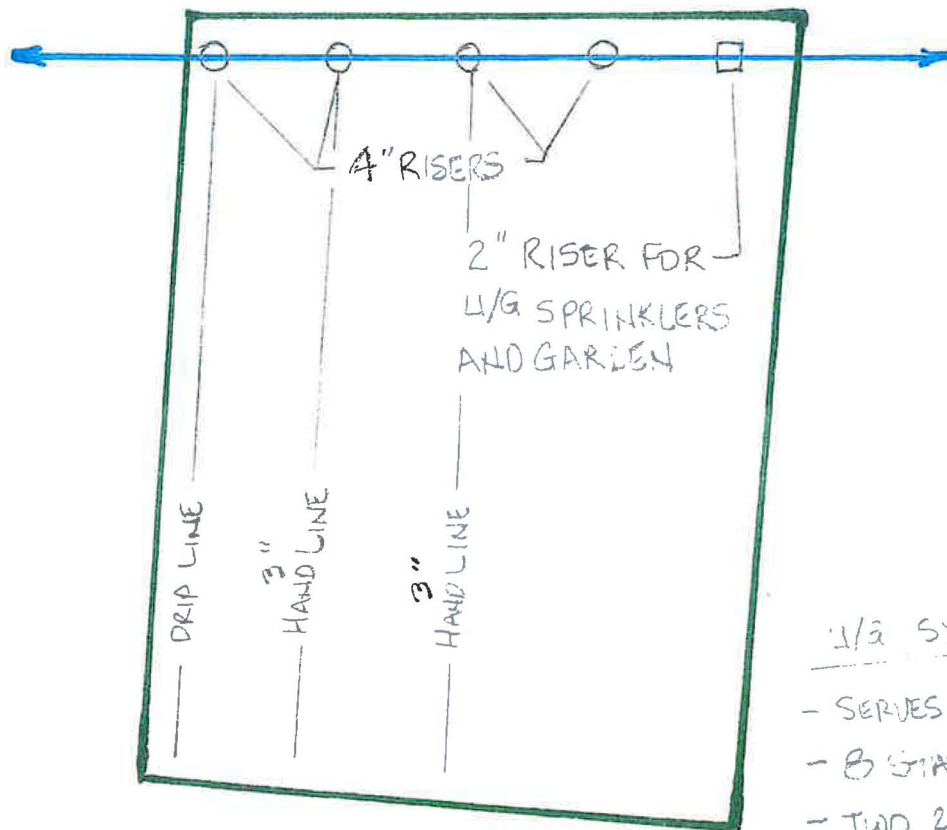
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Scholz Property Schematic



1/2 SYSTEM

- SERVES EAST 1/2 OF PROPERTY
- 8 STATIONS
- TWO 2" VALVES
- ONE 1/4" VALVE
- FIVE 1" VALVE
- ALL RUN AUTOMATICALLY FROM TIMER IN GARAGE

Pump Information

Century Pump Motor

Part 6-323052-01 FR 286TCZ

30 Horsepower

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Overall Schematic – Clark Island Subdivision



Scholz Property Irrigation Details

Permit No. 2-10640

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DEPT. OF WATER RESOURCES

Name	Qty	Sprinkler Type	GPM	Total GPM
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Underground Lawn, Garden and Pasture System (East)

<u>Station 1</u>				<u>73.10</u>
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(12)	Hunter Ultra 6" Rotor	5.00	60.00
(17)	Rainbird Micro Sprayer	0.40	6.80
(18)	Orbitz Micro Sprayer	0.35	6.30

<u>Station 2</u>				<u>73.60</u>
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(14)	Hunter Ultra 6" Rotor	5.00	70.00
(9)	Rainbird Micro Sprayer	0.40	3.60

<u>Station 3</u>				<u>25.55</u>
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(21)	Rainbird Micro Sprayer	0.40	8.40
(49)	Orbitz Micro Sprayer	0.35	17.15

<u>Station 4</u>				<u>30.00</u>
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(6)	Hunter Ultra 6" Rotor	5.00	30.00
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<u>Station 5</u>				<u>30.00</u>
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(6)	Hunter Ultra 6" Rotor	5.00	30.00
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<u>Station 6</u>				<u>35.00</u>
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(7)	Hunter Ultra 6" Rotor	5.00	35.00
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<u>Station 7</u>				<u>16.72</u>
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(2)	Hunter Ultra 6" Rotor	5.00	10.00
(14)	Nelson Micro Sprinkler	0.48	6.72

<u>Station 8</u>				<u>20.00</u>
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(4)	Hunter Ultra 6" Rotor	5.00	20.00
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Above Ground Pasture Irrigation (West)

<u>Handline 1</u>				<u>1.82</u>
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(26)	Orbitz Flag Dripper	0.07	1.82
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<u>Handline 2</u>				<u>105.00</u>
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(15)	Rainbird Impact Sprinkler	7.00	105.00
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<u>Handline 3</u>				<u>98.00</u>
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(14)	Rainbird Impact Sprinkler	7.00	98.00
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<u>Handline 4</u>				<u>0.00</u>
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(0)	Unused	0.00	0.00
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Randy Scholz
(208) 789-5534