

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

A. GENERAL INFORMATIONPermit No: 96-16019

Exam Date: 09/17/2024

1. Does this qualify for an in-office field exam (IDAPA 035.02.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: Anna and William Largen
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No: Address

3. Beneficial Use Fees have been paid: X Y N Receipt No: N044711

4. SOURCE TRIBUTARY

Spring

Sinks

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

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

Water Right No.	Source	Purpose of Use	Basis
None			

Comments:

No water rights overlap the POU. There are no overlap concerns.

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

Water Right No.	Source	Purpose of Use	Basis
NONE			

Comments: There are no POD overlaps.**C. DIVERSION AND DELIVERY SYSTEM****1. LOCATION OF POINT(S) OF DIVERSION:**

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
Spring		Se	NE	SW	27	55N	02W	B.M.	Bonner

Method of Determination: GIS and Parcel data.Change in POD? X N Amendment Required? X N

2. **PLACE OF USE:** Use: Domestic and Irrigation

TWP	RGE	Sec	NE				NW				SW				SE				Total s
			NE	N	S	SE	NE	N	S	SE	NE	N	S	SE	NE	N	S	SE	
55N	02W	27									D								
55N	02W	27									2.0								
Total Acres =																			2.0

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

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

x 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
PUMP					

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, but Applications Processing memo #17 and a theoretical calculation were used to determine an acceptable rate.

E. FLOW CALCULATIONS

 Additional Computation Sheets Attached

No information on the pump was provided by the permit holder. Per Processing Memo #22, a diversion of 13,000 gallons daily is allowed for domestic use (0.04 cfs as a constant flow rate). Processing memo #17 states that a rate of 0.03 cfs per acre is acceptable for irrigation applications under 5 acres. I am recommending a total diversion rate of 0.1 cfs for supplying the needs of a single home and 2 acres of irrigation.

$$0.04 \text{ cfs (domestic requirement)} + (0.03 \text{ cfs/acre} * 2 \text{ acres (irrigation requirement)}) = 0.10 \text{ cfs}$$

Permitted Rate = 0.10 cfs**Theoretical Rate = 0.10 cfs****B.U Limit = 0.10 cfs****Recommended Rate = 0.10 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\text{N/A}}$$

$$V = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\text{N/A}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\text{N/A}}$$

2. Volume Calculations for Other Uses:

0.6 AFA (domestic)

G. PURPOSE OF USEIrrigation ☒ Y ☐ N # Stock _____ Domestic # of Homes 1Change in Purpose of Use? ☐ Y ☒ X ☐ NMethod of Determination: Tax lot data and documentation from owner.**H. NARRATIVE/REMARKS/COMMENTS**

Permit 96-16019 qualifies for an in-office examination because the permitted rate is less than 0.24 cfs, the irrigation component is less than 5 acres, and there is no storage component.

The information for the current permit holder matches the information on the statement of completion provided to the Department. Provided pictures show the diversion works and pump.

The permit holder described the delivery system as drawing water from a spring cistern "piped to water use". No delivery system diagram was provided. The domestic portion of the permit encompasses a single household, while the irrigation portion comprises of 2 acres of irrigated land. Per guidance from application processing memo #22 a generic volume of 0.6 acre feet annually and diversion rate of 0.04 cfs is recommended for domestic use for a single household. Per guidance from application processing memo #17, a diversion rate of 0.03 cfs is acceptable for up to 5 acres of irrigation. While the shape of the place of use of the domestic component of the water right could be drawn from the structures visible on the parcel, the shape of the irrigation component place of use was made with reference to the lawn visible on the 2023 and 2022 versions of the Bonner County Assessor GIS map. I am recommending a diversion rate of 0.10 cfs. I am not recommending a volume for irrigation per Beneficial Use Examination rule 35P because the irrigation source is a spring.

Condition 132 will be retained to allow for the right holder because irrigation is authorized under the irrigation component of this right. Condition R66 will be retained as the irrigated area is less than 5 acres. Condition 004 will be removed as there are no property concerns.

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>
Domestic	01/01 to 12/31	0.04 CFS	0.6 AFA
Irrigation	04/01 to 10/31	0.06 CFS	
<u>Totals:</u>		0.10 CFS	

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- Water Resources Agent- Jacob Caraig

Water Resources Agent's Name

Jacob Caraig

Date

10/29/2024

Reviewer

P. Blum

Date

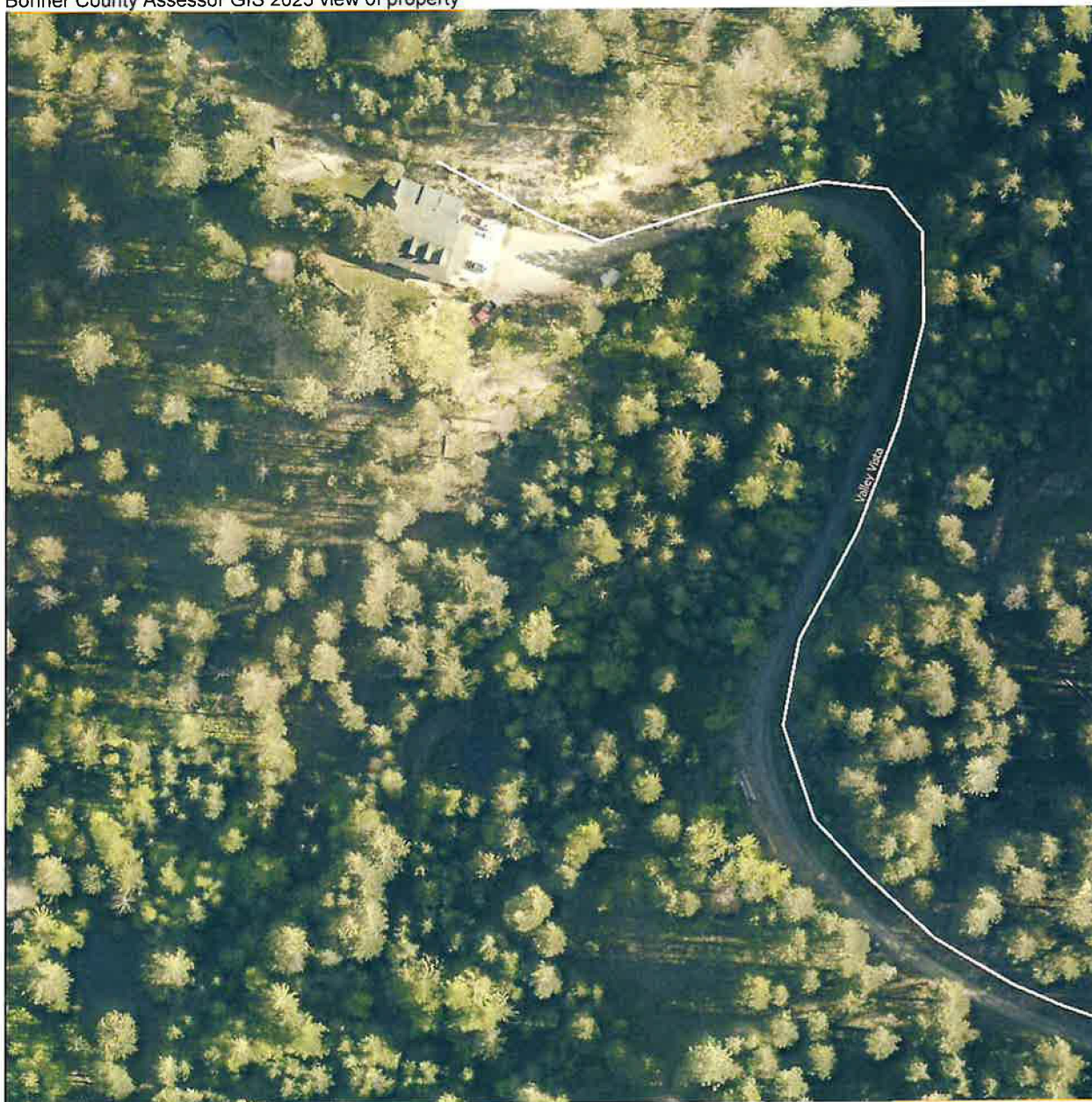
10/30/24

Supporting Imagery –

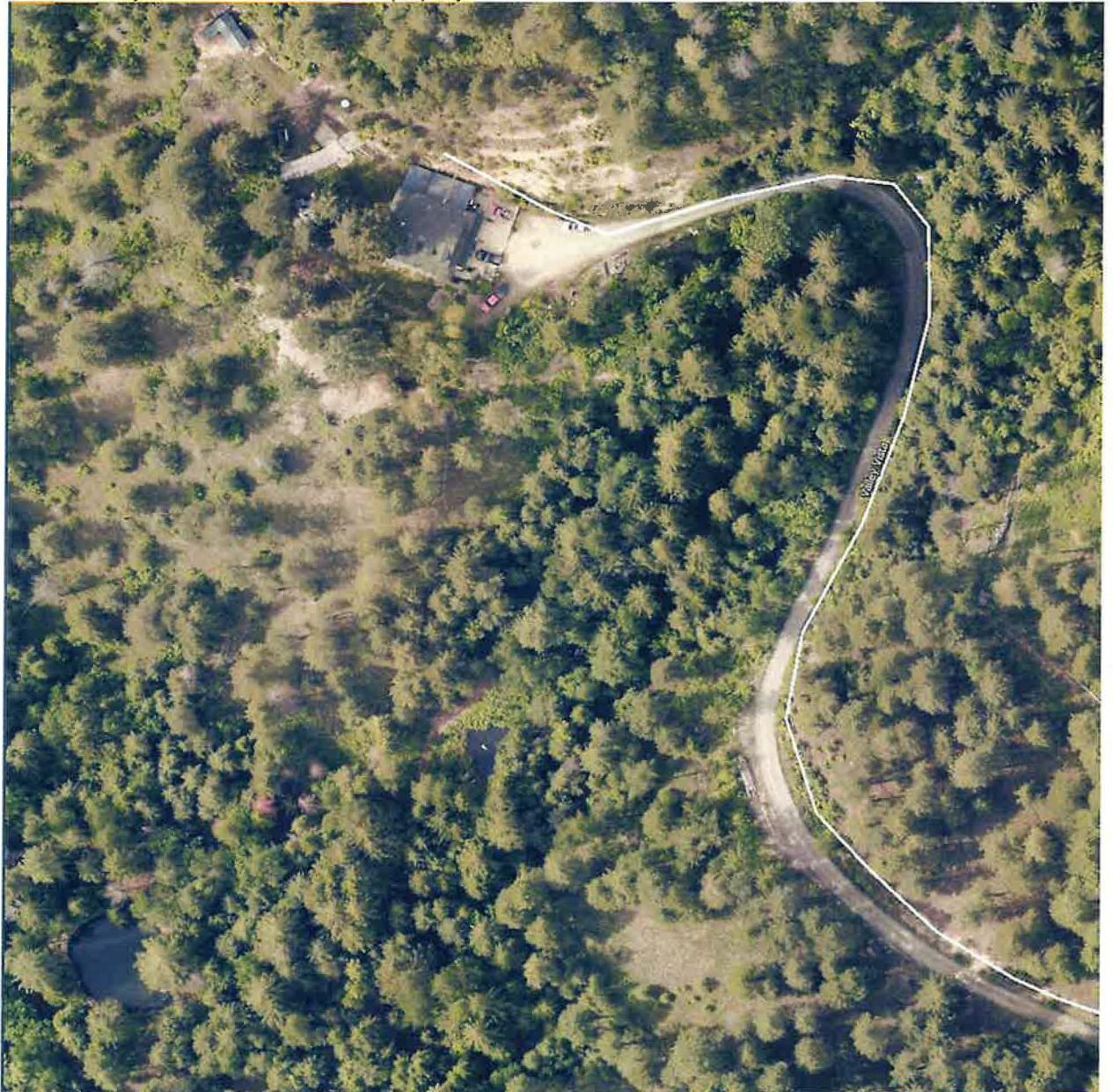
1. The ArcGIS view below shows parcel information for the places of use of the water right proving the lack of property concerns.



2. Bonner County Assessor GIS 2023 view of property



3. Bonner County Assessor GIS 2022 view of property



4. Pictures of diversion works including spring (top) and pump system (bottom)



5. Map of Domestic place of use and point of diversion

State of Idaho
Department of Water Resources
Attachment to Water Right
96-16019

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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



6. Map of Irrigation place of use and point of diversion

State of Idaho
Department of Water Resources
Attachment to Water Right
96-16019

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

