

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

A. GENERAL INFORMATION

Permit No: 97-8151

Exam Date: 03/29/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- X Irrigation of 5 acres or less
 - N/A Storage of up to 14.6 AF for stockwater purposes only
 - N/A Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
 - N/A Other < >
2. Current Owner: LARRY L GEROW and/or MAUREEN C GEROW
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Bonner County Tax Parcel information shows Gerow, Larry L & Maureen C as the owners of the property RP56N05W123500A. I don't see any issues with the ownership of this permit or proposed license.
3. Beneficial Use Fees have been paid: X Y N Receipt No: C117500
4. **SOURCE:** Priest River **TRIBUTARY:** Pend Oreille River
- Method of Determination: ArcMap GIS and Tax Parcel Data.
- Change in Source: Y X N

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
97-8150	Groundwater	Irrigation	Active Permit in process licensing review
97-8163	Groundwater	Domestic	Beneficial Use Claim filed in the CFPRBA
97-4056	Priest River	Irrigation	Statutory Claim

Comments: Active Permit 97-8150's groundwater source irrigation use is currently in license review and has the same 1.4-acre irrigation POU as this permit from the river. I have added condition X35 to this Permit describing combined use limitations between 97-8150 & 97-8151 for 1.4 acres irrigation annually.

The applicant filed a Notice of Beneficial Use Claim in the ongoing Clark Fork Pend Oreille River Basin Adjudication (CFPRBA) process; Claim 97-8163 was filed for a groundwater well source used for domestic purposes. This is a separate water source and water system than this Permit and not a concern for overlap toward licensing this Permit.

I reviewed Statutory Claim 97-4056 during licensing review for this Permit and while the backfile indicates all or a portion of the 3 acres designated under 97-4056 is for the applicant's parcel, no claim was pursued in the CFPRBA by the applicant. 2nd round service letters have been sent out which includes Mr. Gerow, but based on the permit filed for surface water as well as a second permit (97-8150) for groundwater to irrigate the property indicates Mr. Gerow was unable to provide proof of irrigation pre-dating 5/20/1971 to make a claim eligible to be pursued in the CFPRBA. I don't recommend any overlap concern based on my analysis for the statutory claim.

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

C. DIVERSION AND DELIVERY SYSTEM

1. Location of Point(s) of Diversion:

Source	Govt. Lot	¼	¼	¼	Sec.	Twp.	Rge.		County
River Pump			NE	NW	12	56N	05W	B.M.	BONNER

Method of Determination: GIS and Tax Parcel Data.

Change in POD? ☐ Y ☒ N Amendment Required? ☐ Y ☒ N

2. Place of Use: IRRIGATION

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	05W	12					0.7	0.7											1.4
		Lot #																	
Total Acres =																			1.4

Method of Determination: GIS and Tax Parcel Data.

Change in POU? ☒ N Amendment Required? ☒ N

3. Diversion System Information:

Description: Screened intake with portable water pump to hose and sprinkler(s).

☐ Delivery System Diagram Attached. (mark all major components and distances between components)☒ Aerial Photo Attached (required)☐ Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Pump	Unknown	1			

D. FLOW MEASUREMENTS

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

2. Measurement Comments: No measurement required for an in-office exam.

E. FLOW CALCULATIONS

Measurement = 1.4 ac x 0.03 cfs = 0.042 or 0.04 cfs based on department rounding standards.

Permit allowed = 0.05 cfs

Comments: The permit identified use of a 1 hp pump on the Statement of Completion conveyed by 1 ¼ inch pipeline to the irrigation POU. Due to flow measurements not being required, I'm recommending a diversion rate based on Administrative Memo – Application Processing No. 17, which authorizes up to 0.03 cfs per acre for small acreage irrigation. 1.4 acres irrigation designated during licensing review multiplied by 0.03 cfs per acre = **0.04 cfs** or 18 gpm, which I'm recommending for licensing purposes. Although the permit authorized 0.05 cfs, the applicant is limited to the Department standard diversion rate associated with 1.4 acres irrigation recommended for licensing.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ ac} \times 3.0 \text{ afa} = 4.2 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.04 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 17.0$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 4.2 \text{ af}$$

2. Volume Calculations for Other Uses: Surface water (river) source, no volume metrics shall be applied to face of license.

G. PURPOSE OF USEIrrigation Y N # Stock N/A Domestic # of Homes N/A

Other: < >

Change in Purpose of Use? X N

Method of Determination: Tax lot data and information assessed on the Statement of Completion form.

H. NARRATIVE/REMARKS/COMMENTS

This permit qualifies for an in-house examination.

All overlapping water right concerns have been described on PG 1 of this report and condition X35 was added to mitigate concerns between the applicant's surface water & groundwater irrigation uses. Review of aerial imagery from Bonner County GIS maps, Google Earth, and ArcMap software illustrates the irrigated area; I spoke with Mr. Gerow on 3/29/2024 to discuss the irrigation practices, which are by hose and sprinkler rotated throughout the season of use. Mr. Gerow asserts there is a treed section along the driveway and highway that he waters and mows around for fire prevention throughout the summer. The remaining portions of the irrigation POU are illustrated by aerial equating to 1.4 acres total recommended for licensing.

There is an apparent shift/drift in aerial imagery which I've considered when designating the irrigation POU shape in AdHoc. The applicant submitted a land survey stamped parcel boundary map with legal descriptions in both his application for permit packet and with the statement of completion submission. This shows an apron of land east of the residence that ArcMap and Bonner County GIS map(s) show to cut through the residence. The survey plat map holds greater accuracy than the Department's Arcmap imagery, but I recommend condition 004 remain on the license following my analysis of the property boundary.

Irrigation is for lawn, trees, & landscape plants on the property. I spoke with Larry Gerow by phone on 3/29/2024; Mr. Gerow confirmed a 1 hp pump installed on the river irrigation system but has no records of the make/model and the pump is submersible & unable to read the data plate.

IDAPA 37.03.02 Beneficial Use Examination Rules designate irrigation using this surface water river source is exempt from volume reporting requirements. There is no maximum diversion volume or annual diversion volume recommended for licensing. Condition R66 provides annual volume limitations for the recommended irrigation beneficial use.

The permit holder asserts by description & declaration in step No. 6 on the Proof of Beneficial Use form and by phone conversation on 3/29/2024 that a fish screen is installed satisfying screening requirements.

I added condition X35 to the permit during licensing review that describes combined irrigation acreage between WRs 97-8150 and 97-8151 which irrigate the same 1.4-acre POU from two different sources & water systems. All other conditions on the permit shall be carried forward to licensing.

Have conditions of permit approval been met? ☒ Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
IRRIGATION	04/01 to 10/31	0.04 CFS

Totals: 0.04 CFS

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

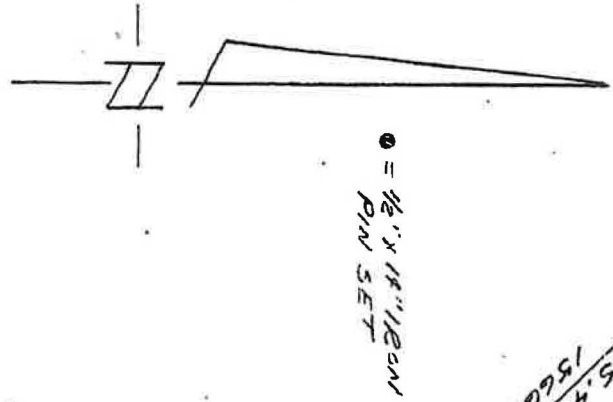
J. AUTHENTICATION Luke Bates – Sr Water Resource AgentField Examiner's  Date 3/29/2024

Reviewer _____ Date _____

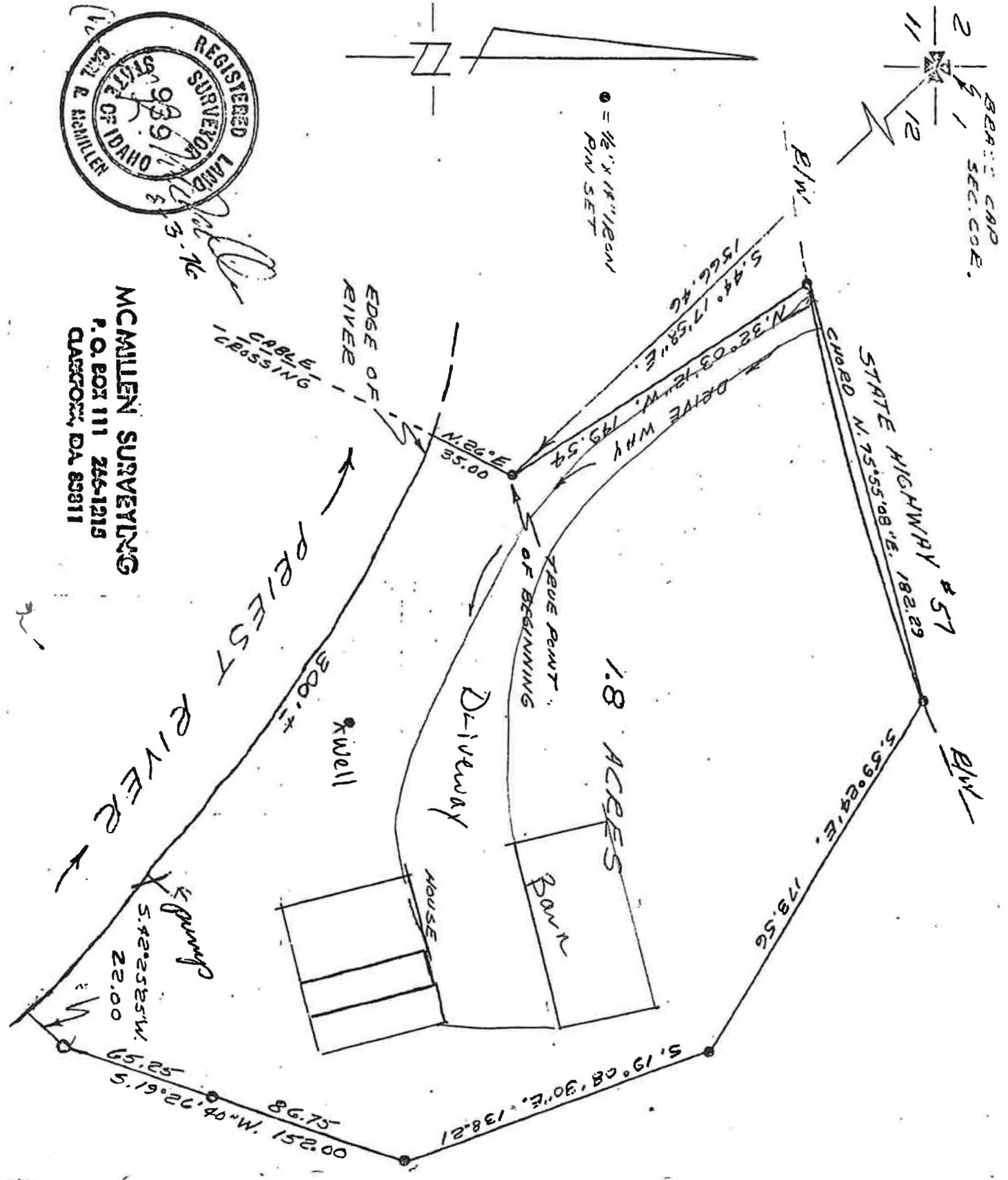
BY W. MILLER DATE 8-3-76
 CHKD. BY _____ DATE _____
 REVISED 8-6-76 CPM

SUBJECT NACCARATO PROP.
A PART OF THE N.W. 1/4
SE 12 T56N R5W P. M.

SHEET NO. _____ OF _____
 JOB NO. 76-31
 SCALE: 1" = 50'



○ = 1/2" x 1/4" IRON PIN SET



MC MILLER SURVEYING
 P.O. BOX 111 266-1213
 CASCADIA, WA 98311

Field Exam Map(s): 3135 HWY 57, Priest River ID.

7/2023 Google Earth imagery of property.

8/2019 Google Earth imagery of property.



Imagery retrieved from Google Earth on 3/29/2024

Bonner County Tax Parcel map retrieved from www.bonnercountytid.gov on 3/29/2024



- Blue border illustrates irrigation POU.

Note: apparent aerial imagery drift/shift as property lines intersect houses in frame. Surveyor stamped property line support documentation supplied by Permit Holder in both application for permit backfile and statement of completion submission support the imagery drift/shift observed in aerial imagery.