

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-9826
Exam Date: 09/24/2025

1. Current Owner:
KOKANEE PARK HOA 25831 HWY 57 PRIEST LAKE ID 83856-8630
2. Accompanied by: Rick Horey
Phone No: 509-710-8938
Address: 226 N Kokanee Park Loop, Priest Lake ID 83856
Relationship to permit Holder: HOA's Representative

3. **SOURCE:**
GROUND WATER

Method of Determination: ArcMap and DRG Layer.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
97-7291 & 97-7521	Ground Water (for both)	Municipal	License with Claim filed in CFRBA (Recommendation status)
97-4083	Ground Water	Domestic	Beneficial use Notice of Claim filed in CFRBA (Recommendation status)

- 97-7291 & 97-7521 are owned by Outlet Water Assn, which is a municipal purveyor historically serving multiple subdivision(s) which include Kokanee Park Subdivision. There is direct overlap from the municipal provider which uses separate ground water source(s) in their water system than the water system infrastructure developed by Kokanee Park HOA; there is a single point pipeline connection valve which facilitates water service from the municipal water system to serve water to the Subdivision as needed to satisfy in-home water use(s) – irrigation covered under a separate water system. I have added condition X35 to my license recommendation to mitigate overlapping water right concern limiting 97-7291, 97-7521, and 97-9826 to a total maximum annual diversion volume of 21.6 acre-feet for residential domestic use for 36 homes in the Kokanee Park Subdivision.
- Notice of Claim 97-4083 was filed by the Applicant for historic ground water use from the same water system as developed within Kokanee Park Subdivision. Based on initial Department recommendation to the Courts of Idaho, the beneficial use is for a portion of the total 36 homes use which will supersede a part of this Permit's domestic use. I have added condition 928 to mitigate overlap concerns and prevent stacking of water rights; 928 will diminish this Permit (Junior WR in priority) the same amount the final Decree for 97-4083 designates.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
97-4083	Ground Water	Domestic	Beneficial use Notice of Claim filed in CFRBA (Recommendation status)

- Historic use Notice of Claim 97-4083 filed by the Applicant in the CFRBA uses the same ground water well POD as this Permit. While still in a claim status, the claim has been recommended by IDWR toward court Decree, and I've recommended licensing this Permit with condition F06 to describe the shared POD between 97-4083 and 97-9826.

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

GROUND WATER L7 (NW¼ SE¼), Sec. 6, Twp 59N, Rge 04W, B.M. BONNER County

Method of Determination: GPS. POD is located at -116°54.196, 48°56.502 well D-Tag D0054057. Well has been modified twice to facilitate hydrofracturing with old Permit No. 97-96-N-57-501.

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
59N	04W	6														X L7			

Method of Determination: Beneficial use field examination, ArcMap aerial imagery, and Bonner County tax parcel map imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be

X 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 ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0054057	Franklin Electric	2	Model#2823018110	GRUNDFOS	1-inch discharge to flow meter

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flowmeter	Flanged Velocity Style	Badger Meter	Recordall 0597	97383825	1-inch discharge	Unkown

2. Measurements: I used the Badger Meter Recordall flanged velocity style flow meter to measure instantaneous flow from the 2 hp well pump; the water system storage reservoir had been drawn down to facilitate direct flow from well to reservoir to ensure maximum diversion rate could be evaluated. I used a stopwatch and the dial gauge to evaluate several minutes of diversion which resulted in a flow rate of 16 gpm or 0.04 cfs considering Department rounding standards.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method:

- Permit authorized Domestic diversion rate = 0.30 cfs (Department standard rate allowance for 30 homes equals 0.25 cfs).
- Theoretical Pump Equation derived a flow rate = 0.03 cfs for the 2 hp pump at depth of 402 ft with 45 PSI operating pressure.
- License recommended diversion rate equals observed flow measurement rate of 16 gpm or 0.04 cfs. The recommended maximum diversion rate of **0.04 cfs** is greatly reduced from the Permit authorized rate based on pump efficiency at time of beneficial use field examination.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A – domestic in-home use only from this ground water well system.
2. Volume Calculations for Other Uses: Domestic annual volume = 36 homes (in-home use only) x 0.6 af = **21.6 af**.

G. NARRATIVE/REMARKS/COMMENTS

I conducted the beneficial use field exam on 9/24/2025 with the Permit Holder's representative, Mr. Rick Horey, which showed a ground water well diverting water for the Kokanee Park Subdivision's domestic in-home use(s). The Point of Diversion (POD) is groundwater well D0054051 which is located within a small, enclosed pump house. At the POD a 2-hp Grundfos pump and Franklin Electric pump motor installed in the well diverts directly to a 6,000-gallon storage reservoir prior to distribution to domestic water users. At time of exam Mr. Horey had ensured the reservoir was drawn down to facilitate flow measurements; I recorded multiple minutes of pump on run time using the system installed Badger Meter – Recordall flowmeter which derived a flow rate of 16 gpm or 0.04 cfs. I've recommended **0.04 cfs** as the maximum diversion rate for licensing purposes.

In addition to this Permit, the Applicant has filed a Notice of Claim No. 97-4083, which I've detailed above on PG1 of this report. Despite the final Decree having not been secured yet for Claim 97-4083, I've recommended condition F06 be included toward licensing this permit to describe the common POD between WRs. Kokanee Park Subdivision also has historically received water services from Outlet Water Assn's municipal water system via single 2-inch cross connection line that direct feeds to the same 6,000-gal storage reservoir associated with this groundwater conveyance system.

Overlap between water systems is described in detail on PG1 of this report and I've added condition X35 to this Permit for licensing purposes to describe combined use limits between the two water systems toward serving in-home residential use to the 36 homes consisting of this Permit's POU. Mr. Horey asserts the municipal water services are back-up and only used when the Subdivision's well doesn't keep up with services. Additionally, the municipal provider secures redundancy to conform with IDEQ PWS requirements; Kokanee Park PWS# ID1090071 illustrates that water purchases are secured from Outlet Water Assn PWS# ID1090094.

During the field exam I used field maps to detail the Domestic Place of Use (POU). The main water line from the ground water well routes to the storage reservoir which is then distributed by water main line that routes along roadways within the subdivision that includes curb stop service connections to 36 homes within the 38-lot subdivision. Lot 1 of the subdivision houses the 6,000-gal community storage reservoir and Lot 17 houses the POD. I used ArcMap aerial imagery and Bonner County tax parcel map imagery during licensing review to assign polygon shapes for each of the 36 residential homes that make up the POU for licensing purposes. The annual volume for in-home use is equal to 36 homes x 0.6 af per home = **21.6 af** recommended for licensing purposes.

During licensing review, I have removed condition 046 based on compliance by the Permit Holder. I have replaced condition X04 that described domestic use for 36 homes with condition WB5, which better describes domestic use for 36 homes which doesn't include external irrigation usage. As discussed on PG1 of this report I've added conditions F06, X35, and 928 at time of licensing. There are no additional overlapping water right concerns toward licensing Permit 97-9826.

Have conditions of permit approval been met? X 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>
DOMESTIC	01/01 to 12/31	0.04 CFS	21.6 AF

Totals: 0.04 CFS 21.6 AF

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

I. AUTHENTICATION

Luke Bates – Sr Water Resource Agent

Field Examiner's Name



Date

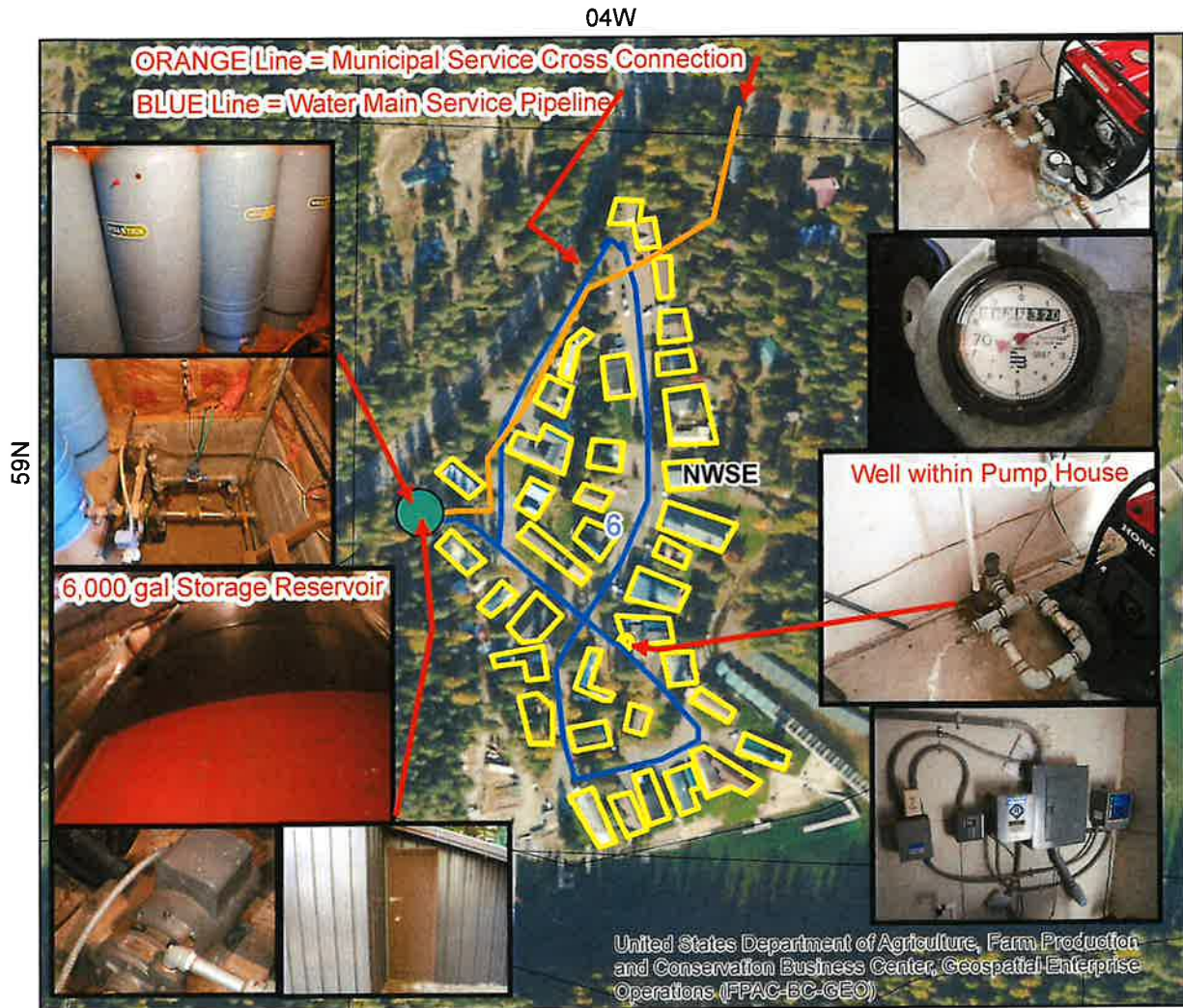
11/4/2025

Reviewer

Date

State of Idaho
Department of Water Resources
Attachment to Field Exam
97-9826

This map depicts the DOMESTIC system diagram.



0 0.04 0.08 0.16 Miles

- 2-Inch Municipal Cross Connection (approximate path)
- Place Of Use Boundary
- Point of Diversion
- Townships
- PLS Sections
- Quarter Quarters

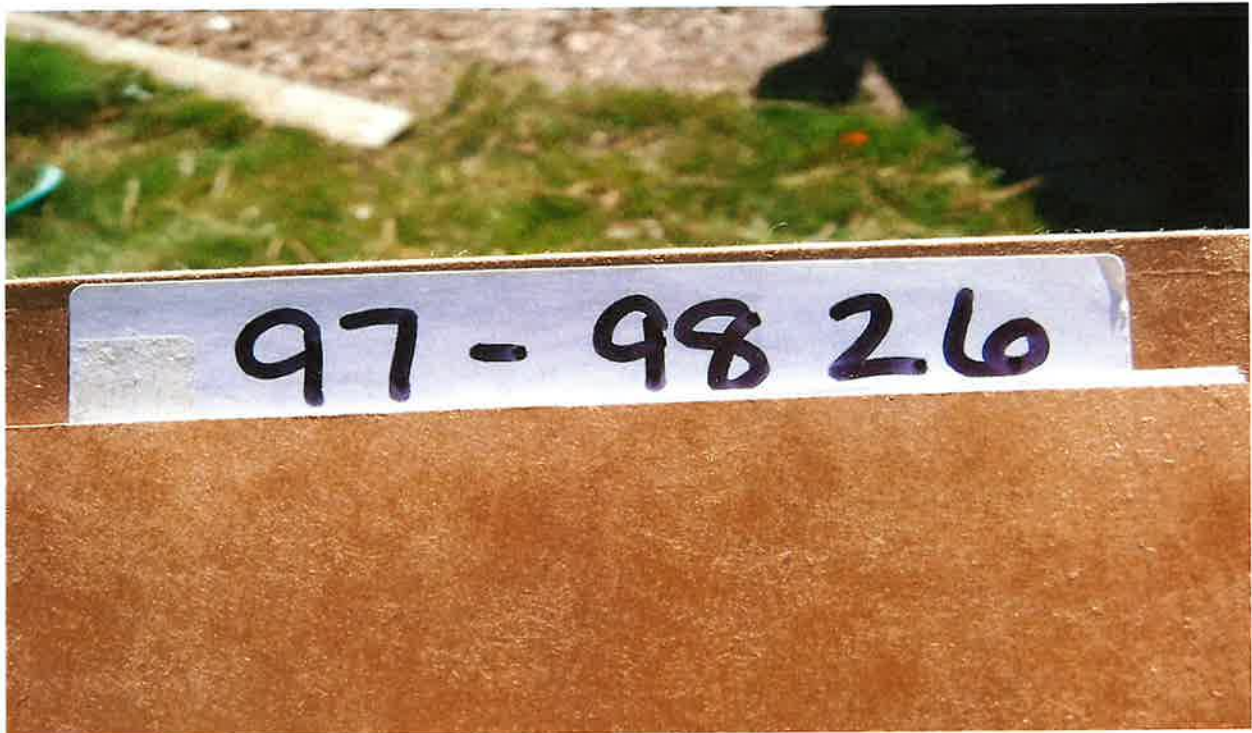


THEORETICAL PUMPING EQUATION(S) FOR WR# 97-9826

"FOR REFERENCE"

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 108 ft, and running at 45 psi.						
<u>PUMP EQUATION</u>						
WATER RIGHT No. 97-9826						
D0054047	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI	
Q =	HP*8.8*Eff/H	2	506.0816	0.8	402	45
Q = 0.028 cfs 12.5 gpm						

NOTE: The theoretic equation derived 12.5 gpm while the beneficial use field exam observed 16 gpm or 0.04 cfs considering Department rounding standards. I've recommended 0.04 cfs based on the flowmeter evalutated flow measurement - L.Bates



BENEFICIAL USE FIELD EXAM DATE 9/24/2025



POD – GROUND WATER WELL LOCATED WITHIN SMALL PUMP STATION PUMPS
DIRECT TO STORAGE RESERVOIR WITH FLOWMETER INSTALLED IN-LINE AT
WELL HEAD



WELL D-TAG D0054057



DIVERTING WORKS – INCLUDE 2 – HP GRUNDFOS PUMP WITH FRANKLIN
ELECTRIC PUMP MOTOR



POD – FRANKLIN ELECTRIC 2 HP PUMP MOTOR MODEL 2823018110



FLANGED VELOCITY STYLE FLOW METER INSTALLED AT WELL HEAD



BADGER METER S/N 97383825 RECORDALL FLOWMETER INSTALLED PRIOR TO DISTRIBUTION TO STORAGE RESERVOIR





ENCLOSED STORAGE RESERVOIR STRUCTURE



CONVEYANCE SYSTEM – INCLUDES 6,000 GAL STORAGE RESERVOIR



STORAGE RESERVOIR USES A CENTRIFUGAL DISTRIBUTION PUMP WITH
PRESSURE TANKS TO DISTRIBUTE WATER TO DOMESTIC SYSTEM





WATER SYSTEM HAS A SINGLE CROSS CONNECTION WITH OUTLET WATER ASSN
MUNICIPAL WATER SYSTEM (BACK-UP TO THIS SYSTEM)



FOUR PRESSURE TANKS SUPPORT DOMESTIC SERVICES TO 36 HOMES



DOMESTIC POU – EXAMPLE(S) OF RESIDENCE LOCATED WITHIN THE KOKANEE PARK SUBDIVISION





DOMESTIC POU – MAIN WATER SERVICE LINES ROUTE ALONG ROADWAYS
WITHIN SUBDIVISION WITH SERVICE LINE CURB STOPS AT EACH PARCEL FOR
CONNECTION





DOMESTIC POU – EXAMPLE OF RESIDENCE WITHIN SUBDIVISION – 36 DOMESTIC RESIDENCES IN TOTAL

