

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

A. GENERAL INFORMATION

Permit No: 95-17654

Exam Date: 04/30/2024

1. Does this qualify for an in-office field exam (IDAPA 37.03.02.035.01.r)? X Y N
- a. N/A Irrigation of 5 acres or less
- b. N/A Storage of up to 14.6 AF for stockwater purposes only
- c. X Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less.
- d. N/A Other < >
2. Current Owner: MICHAEL J BERG and JEANNETTE ZINGGELER BERG
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No Explain:
- Kootenai County Tax Parcel information shows Berg, Michael J as the owner of the property RP53N05W240275. 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: C112664
4. **SOURCE:** Spirit Lake **TRIBUTARY:** Spirit Creek
- 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

Water Right No.	Source	Purpose of Use	Basis
96-8039	Spirit Lake	Domestic	License (parent renumbered to 95-9883)
95-9883	Spirit Lake	Domestic	License

Comments: Licensed Right 95-9883 backfile information illustrates a different parcel and home that is not associated with this Permit's domestic POU. 95-9883 does not reflect a Notice of Claim submitted in the Coeur D'Alene Spokane River Basin Adjudication (CSRBA) process, indicating this license will be disallowed following basin wide decree in the CSRBA process. There is no concern for overlap between 95-9883 & this Permit 95-17654.

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
Lake Pump			NE	NE	24	53N	05W	B.M.	KOOTENAI

Method of Determination: GIS and Tax Parcel Data.

Change in POD? Y X N Amendment Required? Y X N

2. Place of Use: DOMESTIC

TWP	RGE	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
53N	05W	24	X																
53N	05W	24	X																
		Lot #	L7																

Method of Determination: GIS and Tax Parcel Data.

Change in POU? X N Amendment Required? X N

3. Diversion System Information:

Description: ¾ Hp Convertible Jet Pump – Flint & Walling pump & motor with 1/1/4-inch screened intake pipe to 1-inch discharge pipeline routed to home and hose bibs for domestic use.

 N/A Delivery System Diagram Attached. (mark all major components and distances between components) X Aerial Photo Attached (required) X Photo of Diversion and System Attached

3. Diversion Id No.*	Motor Make	HP	Pump Model No.	Pump Make	Pump Serial No. or Discharge Size
Pump	Flint & Walling	¾	CP007		1-INCH

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 = Department standard diversion rate for 1 home with ½ acre irrigation = 0.04 cfs.
Permit allowed = 0.04 cfs

Comments: The permit identified use of a pump and Con-Aire controlled water tank on the Statement of Completion used for domestic use of 1 home at the POU. Due to flow measurements not being required, I'm recommending a diversion rate based on Administrative Memo – Application Processing No. 2, which authorizes 0.04 cfs as a rate of flow for serving 1 house.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses: Domestic 1 home with ½ acre irrigation included = 1.2 af.

G. PURPOSE OF USE

Irrigation N/A # Stock N/A Domestic # of Homes 1

Other: N/A

Change in Purpose of Use? ☒ 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. There is no overlapping water right concerns applied to my licensing recommendation (reference PG1 of report). Review of aerial imagery from Kootenai County GIS maps, ArcMap software, and photographic evidence supplied by Mr. Berg via email correspondence dated 4/30/2024 illustrate the diverting works & lake front residence using lake water for domestic purposes.

The applicant uses a ¾ Hp electric jet pump to divert water from a lake. I researched Flint & Walling pumps via the internet and found that like model ¾ Hp pumps similar to the applicants are capable of producing 16 gpm, which is equivalent to 0.04 cfs considering department rounding standards. I've recommended **0.04 cfs** as the maximum diversion rate for licensing purposes and the maximum diversion volume equals **1.2 af** that includes ½ acre irrigation occurring under the domestic water use. I used Esri Arcmap software to assign the POU shape as the applicant's parcel, which illustrated shows minor shift/drift but encompasses a total of 0.3 acres.

The prior (original) permit holders asserted by declaration in step No. 6 on the Proof of Beneficial Use form that a fish had been installed satisfying screening requirements. Photographs provided by the current Permit holders illustrate a one-way spring-loaded valve is installed on the intake pipe which acts as a screen/block preventing fish and debris from entering the pipeline.

I removed condition 26A from the permit during licensing review. All other conditions shall be carried to license approval. There are no overlapping water right concerns toward licensing this water right.

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

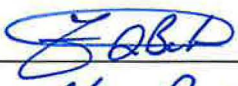
<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
<u>Totals:</u>		0.04 CFS	1.2 AF

2. Recommended Amendments:

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

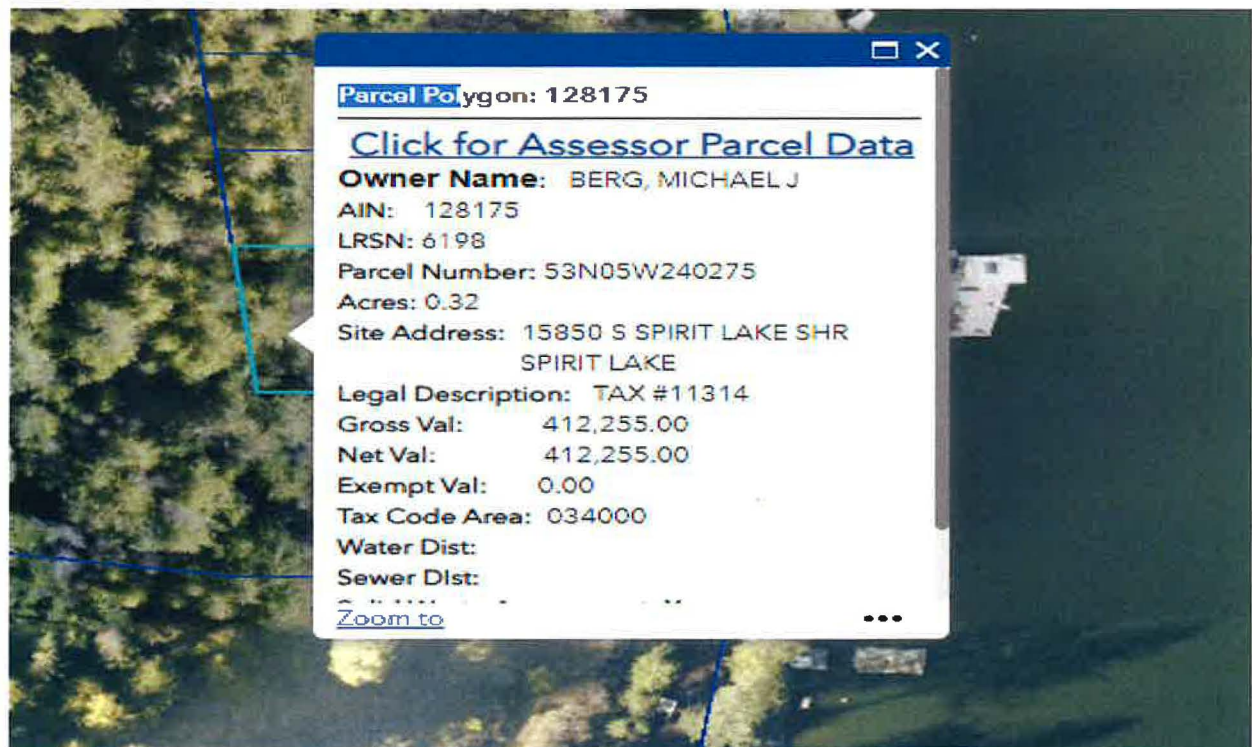
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

Other: N/A

J. AUTHENTICATION Luke Bates – Sr Water Resource AgentField Examiner's  Date 4/30/2024Reviewer  Date 2/5/2025

Field Exam Map(s): 18550 S Spirit Lake Shore, Spirit Lake ID.

Kootenai County Tax Parcel map retrieved from www.gis.kicgov.us/app/kcearth/ on 4/30/2024



95-17654

IN-OFFICE EXAM – Support documentation

 This message is from an external sender.

Pictures



Michael Berg <bergski10@gmail.com>
To  Bates, Luke

  Reply  Reply All  Forward  

Tue 4/30, 2024 12:22 PM

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Here are the pictures I took over the weekend. Let me know if you need anymore. Thanks, Mike Berg



INTAKE PIPE WITH ¼ INCH SCREENED FOOT VALVE



POD – FLINT & WALLING INC ¾ HP CENTRIFUGAL PUMP MODEL NO. CP007



WATER SYSTEM COMPONENT – STA-RITE PRESSURE POT



DOMESTIC POU - WATER SYSTEM RISER PIPE WITH HOSE-BIB ATTACHEMENT



DOMESTIC POU

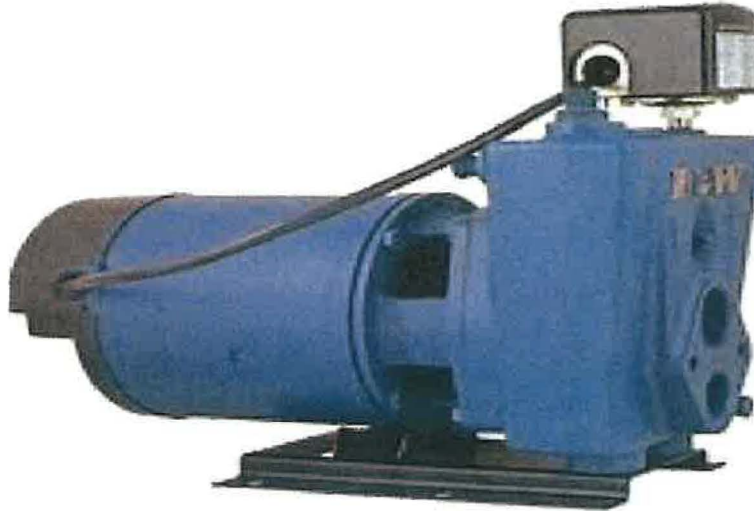
95-17654

DIVERTING LAKE PUMP SPECIFICATIONS

FLINT & WALLING PUMP & MOTOR: Model #CPJ07 – ¾ HP, 1 ¼ inch intake to 1 inch discharge line, 60 Hz 3450 RPM, to Con-Air controlled water tank for domestic use.

CPJ07B 3/4HP Convertible Jet Pump

<< Back



A Flint and Walling CPJ07B 3/4HP convertible jet pump has the following features.

Similar Part No./Model No. the CPJ values adding to 3/4 Hp.

CPJ AND CPH SHALLOW WELL CAPACITIES WITH CONVERTIBLE EJECTOR

Model No.	HP	Ejector Assembly	Suct. Lift Ft.	Discharge Pressures (PSI)								Suction & Discharge	Pressure Switch Setting	Shut Off Pressure PSI	Pump Ship Weight
				20	30	40	50	60	70	80	90				
CPJ05B CPH05 CPH05R†	1/2	DW40E-1730	5	14.8	14.5	13.2	10.0	6.7				1-1/4" X 3/4"	30-50	76	46 38
			15	11.8	11.3	11.2	8.3	5.0						72	
			25	7.3	7.2	7.0	6.5	3.3						67	
		DW40E-1828	5	12.0	11.5	11.3	10.2	7.8	5.0			1-1/4" X 3/4"	30-50	90	
			15	9.0	8.8	8.7	8.5	6.7	4.2					85	
			25	5.3	5.3	5.2	5.2	5.0	3.3					80	
CPJ07B CPH07 CPH07R†	3/4	DW40E-1630	5	16.0	15.7	15.5	15.0	10.3				1-1/4" X 1"	30-50	75	56
			15	12.5	12.3	12.3	12.2	7.0						72	
			25	8.3	8.3	8.2	8.0	4.2						66	
		DW40E-1726	5	10.2	10.0	9.7	9.5	9.3	9.2	7.5	5.7	1-1/4" X 1"	30-50	120	
			15	8.0	7.5	7.3	7.3	7.2	7.2	6.7	5.0			115	
			25	4.8	4.7	4.5	4.3	4.2	4.2	4.2	3.3			110	
CPJ10B CPH10 CPH10R†	1	DW40E-1634	5	20.8	20.8	20.5	20.3	15.8				1-1/4" X 1"	30-50	80	58 49
			15	16.7	16.7	16.3	16.2	13.0						75	
			25	11.7	11.5	11.3	11.2	9.3						70	
		DW40E-1828	5	12.2	11.7	11.7	11.3	11.2	11.2	10.8	8.0	1-1/4" x 1"	30-50	125	
			15	9.5	9.2	9.0	8.8	8.8	8.8	8.7	6.7			120	
			25	5.7	5.5	5.3	5.2	5.0	5.0	5.0	5.0			115	
CPJ15	1-1/2	DW40E-1736	5	23.8	23.3	23.3	23.0	18.7	13.8	8.3		1-1/4" x 1"	30-50	93	66
			15	18.0	17.8	17.5	17.3	16.3	11.7	6.0				88	
			25	11.0	10.7	10.7	10.5	10.3	8.3	2.0				82	

†"R" models include pressure switch and 134349 control package. Order ejector separately.
Maximum Pump Case Pressure = 150 PSI

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