

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17947
Exam Date: 06/15/2022

1. Current Owner:
PATRICK MAGAJNA 10848 N SPLIT ROCK RD HAYDEN ID 83835-7015
STEPHANIE MAGAJNA 10848 N SPLIT ROCK RD HAYDEN ID 83835-7015
2. Accompanied by: In house
Phone No:
Address:
Relationship to permit Holder:

3. **SOURCE:** Tributary
HAYDEN LAKE SINKS

Method of Determination: application

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-406	Hayden Lake	Domestic	Water right

Comments: 95-406 is a domestic right from the same source for 0.02 cfs and 0.6 af. This right was decreed in 1973.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The POD for 95-406 is a centroid in ArcMap. Not sure where the POD is located.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
HAYDEN LAKE NW¼ NE¼, Sec. 17, Twp 51N, Rge 03W, B.M. KOOTENAI County

Method of Determination: Application and Permit

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	
51N	03W	17		X	X														
51N	03W	17		X															
				L2															

Method of Determination: Application, permit and ArcMap

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 _____ 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
 _____ 1:24,000 or greater.

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

_____ 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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

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

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

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

2. Volume Calculations for Other Uses: 1.2 af for domestic and up to ½ acre of irrigation. See Administrative processing memo # 22.

G. NARRATIVE/REMARKS/COMMENTS: ArcMap and Kootenai confirm dwelling on Lot 3, 4 Blk 1, Lot 3 Blk 2. Lot 3 Blk 1, Lot 2 Blk 2 will also be irrigated with the 0.5-acre irrigation allowed by a domestic right. These properties extend across the road but the portions along the lake will be the parcels that are irrigated. Dan ran a theoretical on the horsepower of the pump. 0.04 cfs (18 gpm) is a limiting factor as the pump will produce 36 gpm. I removed condition 26A and 029 after confirmation of the installation of a fish screen.

Water right 95-406 is an older right decreed in 1973 that according to the condition on the right, is appurtenant to the same property. This was overlooked in the processing of this application. Not sure if the owner of this permit is aware. Combined conditions will be added to this license.

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	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 X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Jean Hersley -

Field Examiner's Name Jean Hersley Date 6-16-22
 Reviewer Phum Date 6/17/22

6/15/2022

95-406

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right 95-406

6/15/2022

Combined Use Limits:

N/A

SubCase:

N/A

Water Supply Bank:

N/A

THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-17947
 Reviewer: Dan Nelson
 Date of Review: 6/14/2022

P/D No.:

PUMP HORSEPOWER
 BOOSTER HORSEPOWER

PUMPING LEVEL

DISCHARGE PRESSURE

RATE OF FLOW (cfs)
 RATE OF FLOW (gpm)

Scenario #1
2
0
82
40
0.071
32

Scenario #2
2
0
82
50
0.062
28

Scenario #3
2
0
82
60
0.056
25

The above calculates the formula =

Q =

$$\frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

I reviewed the pump information and found that they used a 2 Hp pump. The elevations show that the elevation is from 2238 ft to approximately 2320 ft of elevation. This would require approximately 82 feet of lift. I found an estimated diversion rate of 25 to 32 feet using this theoretic calculation. using the pump curve for this permit, at 80 feet of head and 50 psi the pump would produce 36 gpm. All of these flow rates are above the 0.04 cfs (18 gpm) authorized by the permit. Therefore, the permit would be the limiting factor, so I would recommend the diversion rate be limited to the 0.04 cfs.

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Home (/) > Manufacturers (/Manufacturers-c206.html) > Franklin Electric (/Franklin-Electric-c213.html) > Water Pump Packages (/Water-Pump-Packages-c343.html) > SubDrive QuickPAK (/subdrive-quickpak.html) > SubDrive NEMA 4 (/subdrive-nema-4.html) > Franklin Electric 93802530 25SDQP-2.0HP-N4 SubDrive 100 QuickPAK 25 GPM NEMA 4



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Franklin Electric 93802530 25SDQP-2.0HP-N4 SubDrive 100 QuickPAK 25 GPM NEMA 4



[Move to List](#)**\$5,639.00**

Quantity: + -

1

[Add to Cart](#)**Usually ships within 1 week**

SKU: FEC93802530

**Warranty:**

No Warranty

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Lower 48

Shipping Weight:

55.0 LBS

Shipping Dimensions

Length: 28 In

Width: 18 In

Height: 12 In

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[Description](#)[Specifications](#)[Resources](#)[Warranty](#)[Reviews \(0\)](#)

Franklin Electric 4" Submersible Motor Specifications

- BODY CONSTRUCTION: 304 Stainless Steel
- HORSEPOWER: 2.0 HP
- VOLTAGE: 3 ϕ , 230V
- RPM: 3450
- SERVICE FACTOR: 1.25
- DOWNWARD THRUST (lbs): 650 lbs
- MAX AMBIENT TEMPERATURE: 86°F/30°C
- DUTY RATING: Continuous

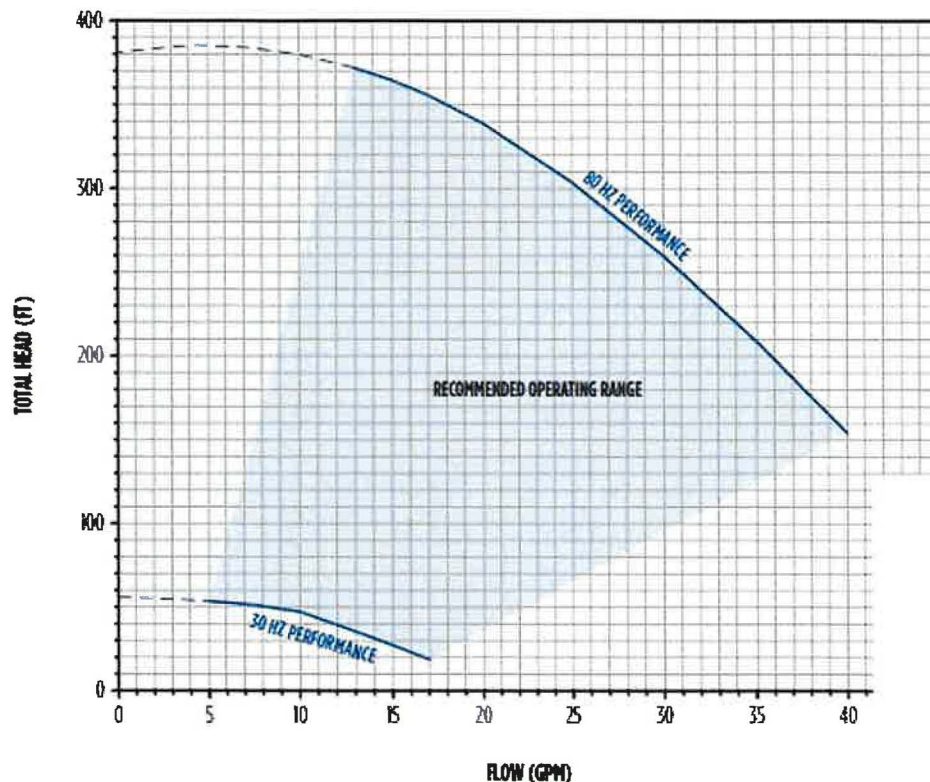


- FULL LOAD AMPS: 6.7
- LEAD: 3-Wire, XPLE

Franklin Electric SubDrive QuickPAK Pump Curve

25SDQP-2.0HP-3RC/N4

SD20/100 | 25 GPM, 1 HP PUMP END | 2 HP MOTOR



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HP	PSI	Depth to Pumping Water Level or Lift (in feet)											
		20	40	60	80	100	120	140	160	180	200		
2	0								39	36	35		
	10							38	36	35	34		
	20						38	36	35	34	32		
	30					37	36	35	34	31	29		
	40				37	36	35	33	31	29	26		
	50		40	37	36	35	33	31	28	26	23		
	60	39	36	35	34	33	30	28	25	23	21		
	70	36	35	34	32	30	27	25	23	20	16		
	80	35	34	32	30	27	25	22	20	15			
	90	34	32	29	27	24	22	19					
	100	31	29	26	24	22	18						
	110	28	26	23	21	18							
	120	25	23	21	17								
	130	23	20	16									
	140	20	15										
	150	14											
Shut-off psi		158	149	141	132	123	115	106	98	89	80	59	37

NOTE: Running outside of "Recommended Operating Range" for short periods of time is permissible. Actual maximum performance of the SubDrive QuickPAK system is power limited by the SubDrive unit. This limit is based on the maximum allowable AMP load of the submersible motor. The result is that in some installations an 80 Hz speed may not be attained.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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Sanitizer Kit

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Hersley, Jean

From: Stephanie Magajna <smagajna@hotmail.com>
Sent: Thursday, June 16, 2022 10:39 AM
To: Hersley, Jean
Subject: Re: Permit 95-17947

Hi Jean,

I talked to United Crown, who had done our install, and they confirmed that yes, we do have a ¼" fish screen. Please let me know if there is anything else you need from me.

Thanks,

Stephanie Magajna

From: Hersley, Jean <Jean.Hersley@idwr.idaho.gov>
Sent: Wednesday, June 15, 2022 3:46 PM
To: smagajna@hotmail.com <smagajna@hotmail.com>
Subject: Permit 95-17947

The Department of Water Resources is in the process of reviewing your permit for licensing. There is a condition on your permit that requires a ¼ inch fish screen. You checked the box that says a fish screen is not required. Has this screen been installed? I couldn't find it on the invoice you provided from the pump company.

Please respond within 30 days and I will continue to process your license. Let me know if you have any questions. Thank you.

*Jean Hersley
Technical Records Specialist II
Idaho Dept Water Resources
(208) 287-4942*