Processing Materials

- Work copies of applicant-submitted information
- Deficiency letter
- Deficiency response
- Correct & complete determination
- Any correspondence with the applicant after application receipt and prior to sending the Draft PD

Processing Materials

COPY

PURPOSE AND DIVERSION INFORMATION

14. ☐ **Y** ☑ **N** Is the proposed use temporary?

14.a. If yes, when will the appropriation cease? _____

15. Is the proposed source surface water or groundwater? Surface Water

16. What is the source name? Flathead River

17. ☐ **S** Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners; township and range; north arrow; scale bar; all proposed points of diversion labeled with a unique Point of Diversion (POD) ID number and, if applicable, GWIC number; all proposed places of use; all proposed conveyance facilities and or routes; all proposed places of storage labeled with a unique Storage ID number; and places of use (POU) for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

18. Fill out the table below. Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

Purpose	**Means of Diversion**	**Acres Irrigated** (if appl.)	**Period of Diversion** *(Month/Day - Month/Day)*	**Period of Use** *(Month/Day - Month/Day)*	**Flow Rate** ☑ *GPM* ☐ *CFS*	**Volume** *(Acre-Feet)*
Domestic	Pump		01/01 - 12/31	01/01 - 12/31	30	1.08
				Total Flow Rate and Volume Required	30	1.08

19. ☐ **Y** ☐ **N** Does the proposed use include on or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the following table, where applicable.

Purpose	**Requested Information**	**Response**
Domestic or multiple domestic	Number of dwellings	1 Dwelling
Stock	Number of animal units	NA
Irrigation	Method of irrigation type (sprinkler or flood) and subtype (if flood: level border, graded border, furrow, contour ditch, or other; if sprinkler: center pivot, wheel line, or other)	Lawn & Garden Irrigation Sprinkler. < ~~10gpm~~ 30gpm pump
Irrigation (flood only)	Design slope	NA

JPH 10/07/2025

COPY

POINT(S) OF DIVERSION

20. Describe the proposed location of the point(s) diversion to the nearest ¼ ¼ ¼ Section. Label each POD with the POD ID number used for the project map (question 17).

JPH 10/07/2025

POD #	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot
1	SE	NE	SE	32	31N	19W	FLATHEAD			4C		6

PLACE OF USE

21. What are the geocodes of the place of use?

07-4295-32-4-01-20-0000	

22. Describe the legal land description for the proposed place of use and, if applying for an irrigation or lawn and garden purpose, list the number of irrigated acres.

JPH 10/07/2025

Acres	Gov. Lot	Block	¼	¼	¼	Sec.	Twp.	Rge.	County
0.25	6		SE	NE	SE	32	31N	19W	FLATHEAD

COPY

ADEQUATE MEANS OF DIVERSION AND OPERATION

32. ☐ **S** Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

33. Describe specific information about the capacity of all proposed diversionary structures. This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length.

See the following attachments:
~~POD - Size and Configuration of Infrastructure~~
~~POD - Pump System Details~~
POD - Friction Loss Charts
POD - Operation Diagram

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods.

See the following attachments:
~~POD - Size and Configuration of Infrastructure~~
~~POD - Pump System Details~~
POD - Friction Loss Charts
POD - Operation Diagram

35. Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion.

Based on stream gage data, the water is physically and legally available in the amount ~~required. See: USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.~~ ~~The system is completely contained. Losses are negligible from the buried storage tank.~~ Float switches will prevent overflow.
See: Q72 - Water Availability
Adequately explained in POD-Size and Configuration of Infrastructure attachment
JPH 10/07/2025

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

July 9, 2025

PAUL AND DENA SZYMAREK
215 W BANDERA RD STE 114
BOX 246
BOERNE TX 78006-2842

Subject: Notice of Termination for Beneficial Water Use Permit Application No. 76LJ 30165108

Dear Applicants,

The Department of Natural Resources and Conservation (Department) received your deficiency response on June 11, 2025. After reviewing the response, the Department has determined that the below defects identified in our letter sent on April 3, 2025 have not been resolved and the application is not correct and complete. Per ARM 36.12.1501(2) and §85-2-302(6)(a), MCA, the application is now terminated.

The following defects identified in the deficiency letter have not been resolved:

- Form 600 – Purpose and Diversion Information
  - Question 20. Fill out the table below.
    - Flow rate you provided in the table: 30 GPM
      - Deficiency letter detail: "The pump system details indicate the pump is 2 HP and capable of 20 GPM. Thus, the provided flow rate of 30 GPM would be infeasible. Please respond with additional information or request that the flow rate be reduced to what the pump can provide." (ARM 36.12.1707)

In your deficiency response attachment titled "POD – Pump System Details," you did not provide any information about how you arrived at the total dynamic head you used on the pump performance curve to determine the requested flow rate, you increased the requested flow rate from 30 GPM to 35 GPM, and it appears you changed the pump you plan to use.

The Department's technical analyses are valid until February 21, 2026 (one year from the technical analyses report date of February 21, 2025), in the instance you want to resubmit the Application.

If you have any questions regarding the termination of Beneficial Water Use Permit Application No. 76LJ 30165108 or the process of submitting a new application, please contact me at (406) 752-2746 or Travis.Wilson@mt.gov.

Sincerely,

Travis Wilson
Water Resource Specialist
Kalispell Regional Office

Cc: Clinton Post, Alto Well and Pump, 37 Starlight Dr., Kalispell, MT 59901

Water Resources Division

Kalispell Regional Office

655 Timberwolf Pkwy Ste 4
Kalispell MT 59901-1215
phone: 406-752-2288

April 3, 2025

PAUL & DENA SZYMAREK
215 W. BANDERA RD STE 114
BOERNE, TX 78006-2842

Subject: Deficiency letter for Beneficial Water Use Permit Application No. 76LJ 30165108

Dear Applicant,

The Department of Natural Resources and Conservation (DNRC or Department) has begun reviewing your application. This letter is to notify you of the deficiencies in your application as required in ARM 36.12.1501(1) and §85-2-302(5)(b), MCA. An Applicant is required to submit substantial and credible information addressing the rules and statutes that are relative to your application. You must provide the information specified below for your application to be considered correct and complete. "Correct and complete" means all of the information provided is substantial and credible and provides all of the information as required by applicable rules and statutes. The application as submitted contains deficiencies in the following section(s):

- ☐ Form No. 600:
  - Subtitle Purpose and Diversion Information
    - Throughout application: What is the source name? Original Answer: Middle Fork Flathead River
      - According to Montana Cadastral and the USGS National Hydrography Dataset (NHD), the Middle Fork Flathead River transitions to the mainstem Flathead River downstream of the confluence of the North Fork Flathead River and the Middle Fork Flathead River in the NE 1/4 of Section 7, Township 31 N, Range 19 W, Flathead County. Since your diversion withdraws water from the source downstream of that confluence, the source name for this application is the

Flathead River, and not the Middle Fork Flathead River. If you agree with this adjustment throughout, no action is required on your part. DNRC will make the adjustment. If you disagree, please provide additional evidence to the contrary. (*Please note, this is not a deficiency and rather a clarification.)

- Question 20. Fill out the table below. Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others. Original Answer: 30 gpm was listed as the flow rate for domestic purposes.
  - The pump system details indicate the pump is 2 HP and capable of 20 gpm. Thus, the provided flow rate of 30 gpm would be infeasible. Please respond with additional information or request that the flow rate be reduced to what the pump can provide.

- Subtitle: Points of Diversion
  - Question 21: Describe the proposed location of the point(s) of diversion to the nearest ¼ ¼ ¼ Section. Label each POD with the POD ID number used for the project map (question 19). Original Answer: SE NE SW Sec. 32 Twp. 31N Rge. 19W.
    - Based upon the map provided and previous discussions with this office, the correct legal land description for the point of diversion appears to be SE NE SE Sec. 32 Twp. 31N Rge. 19W. Please confirm the legal land description.
- Subtitle: Place of Use
  - Question 23: Describe the legal land description of the proposed place of use and, if an irrigation or lawn and garden purpose, list the number of irrigated acres. Original Answer: SE NE SW Sec. 32 Twp. 31N Rge. 19W.
    - Based upon the map provided and previous discussions with this office, the correct legal land description for the place of use appears to be SE NE SE Sec. 32 Twp. 31N Rge. 19W. Please confirm the legal land description.
- Subtitle: Adequate Means of Diversion and Operation
  - Question 38. Provide a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use. Original Answer: The question was left unanswered or blank.
    - A diagram must be provided.
  - Question 41. Describe the size and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include, where applicable: ditch capacity and/or pipeline size and configuration. Original Answer: The applicant referenced the Size and Configuration of Infrastructure

attachment. A notation was included indicating there will be a storage tank of 1000+ gallons.

- An upper limit to the storage tank size must be disclosed.

As stated above, the information submitted to address the rules and statutes listed in this deficiency letter must be substantial credible information to be acceptable at the correct and complete determination. §§85-2-102 (9) and (26), MCA.

Please submit the information specified above to the Kalispell Regional Office by 08/01/2025. This is the only deficiency letter that will be sent. An application not corrected or completed within 120 days from the date of this letter is terminated per ARM 36.12.1501(2) and §85-2-302(6)(a), MCA.

Please let me know if you have any questions.

Best,

Joseph P. Howerton

Joseph Howerton
Water Resources Specialist
Kalispell Regional Office
Joseph.Howerton@mt.gov
406-752-2702

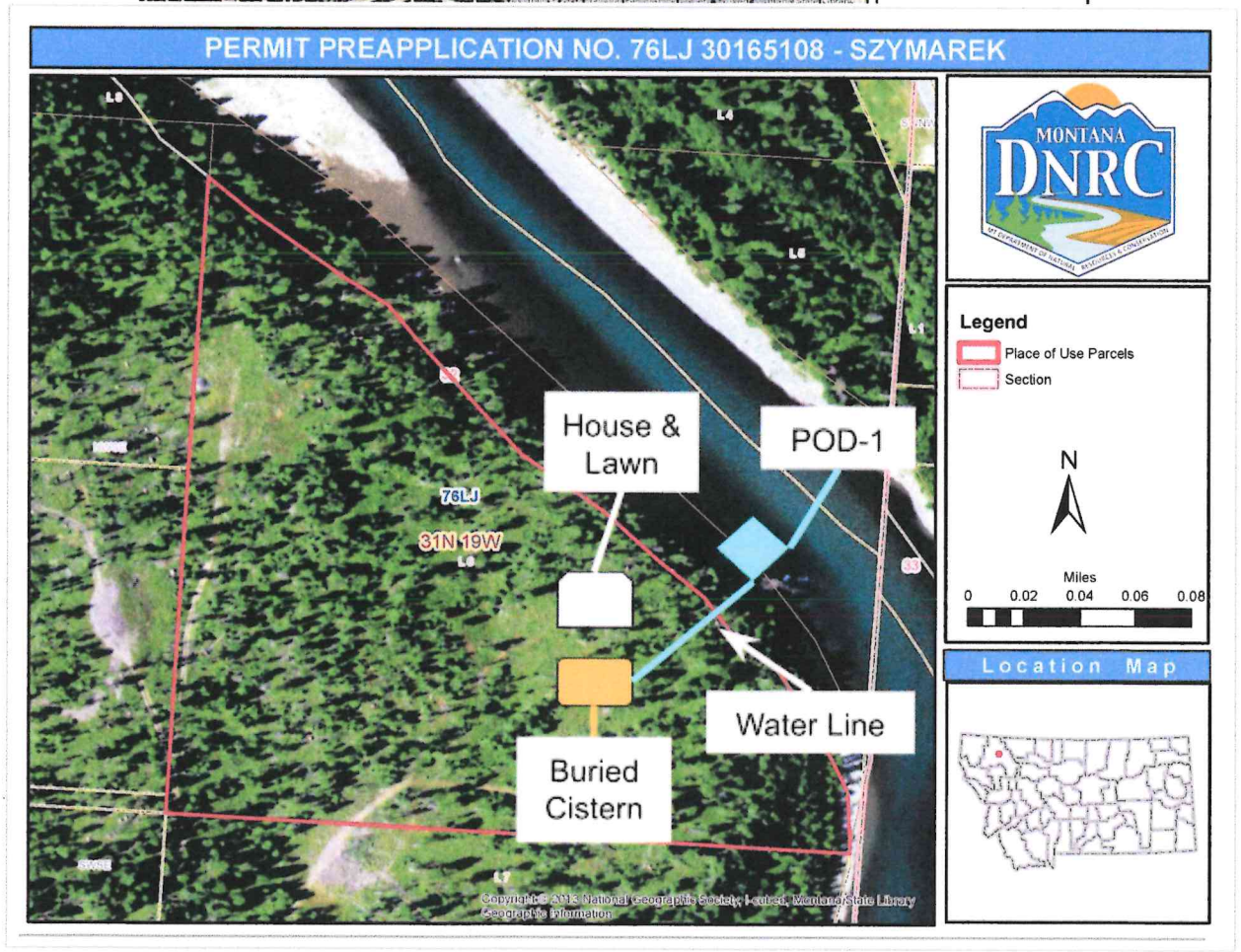
CC:

Clinton Post
37 Star Light Dr
Kalispell, MT 59901

IMPORTANT NOTICE: This will be the final opportunity for you to provide the required information to the Department. If all of the requested information in this letter is not postmarked or submitted within 120

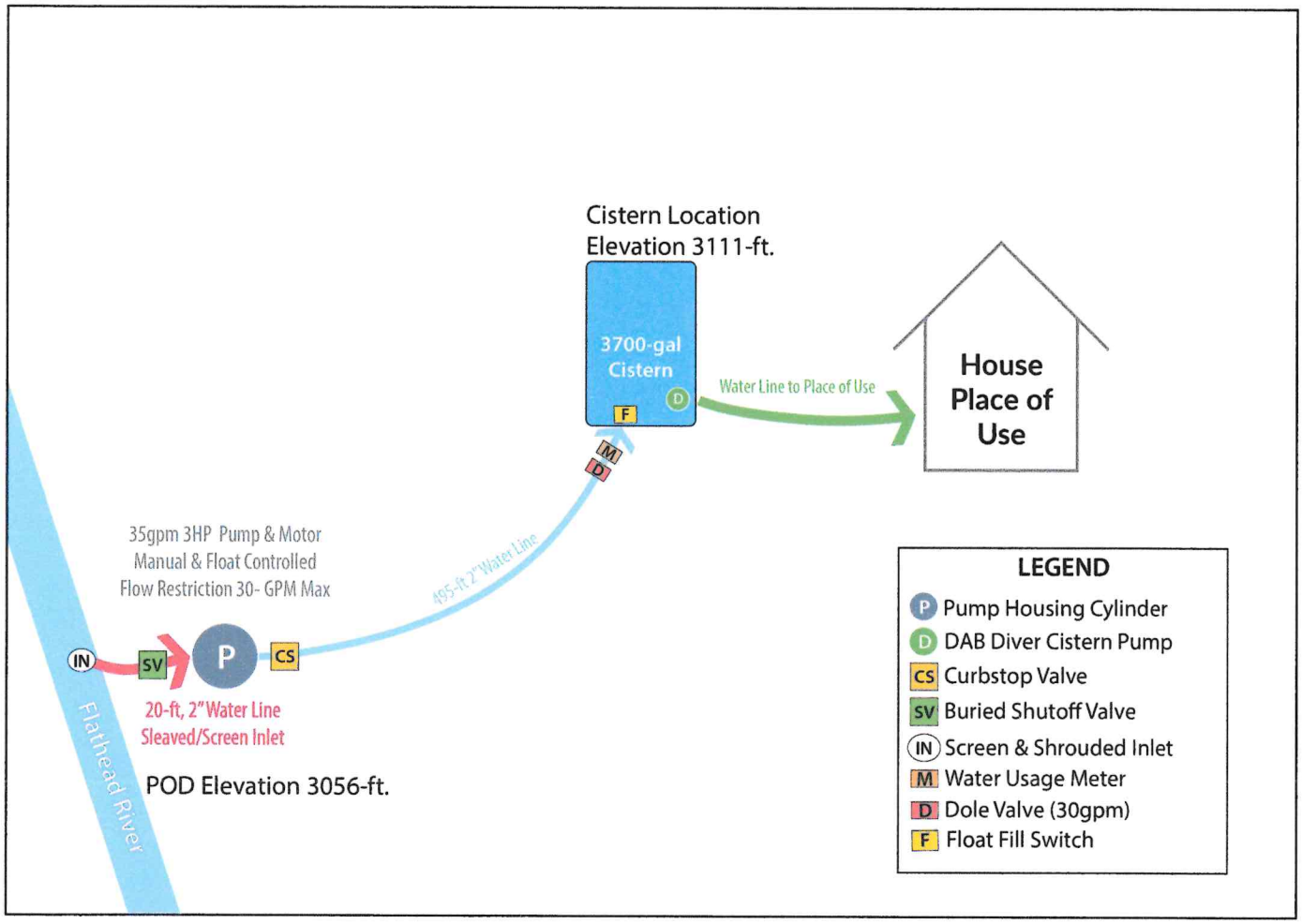
days of this letter, the application will be terminated within 30 days and the application fee will not be refunded.

POD - 1



GEO Code: 07-4295-32-4-01-20-0000 | SE NE SE Sec. 32, Twp 31N, Rge 19W | Flathead River

POD - Operation Diagram



POD - Size and Configuration of Infrastructure

Point of Diversion (POD): A 2" poly pipe is buried below the frost line (20 feet from the river edge) to draw water from the Flathead River. The pipe is equipped with a foot valve to screen out debris and to protect aquatic life.

Pump Housing Cylinder: The 2" poly pipe connects to a 10-foot-tall, 6-inch quarter-wall steel pipe with a welded steel cap on the bottom and a sealed vented cap on the top. It is buried 8 feet in the ground. The top of the housing will be 2 feet above the surface for installing and servicing a submersible water pump. A curb stop valve is installed between the pump housing cylinder and the river to control water flow and shut off diversion when necessary manually. The pump will be placed on a pitless adapter below the frost line. This setup ensures efficient water conveyance and protection from freezing conditions.

Storage Tank: The submersible pump conveys water through a 2" poly pipe from the pump housing cylinder to the storage tank with an aerated discharge at the top of the tank. A pump-up float switch activates and deactivates the submersible pump in addition to a manual override switch. A 3700-gallon buried storage tank with a float switch will be used to regulate the water level in the tank and prevent over-pumping. The maximum tank storage capacity is 3700 gallons (0.01135489 AF). The tank provides water for domestic use in the household, as well as for some basic lawn and garden needs.

Electricity: The electrical wire will be heavy-duty, submersible, flat-jacketed wire installed inside electrical conduit. The size of the submersible wire is #10AWG. The max distance that a 3-hp three-phase motor can run on a #10AWG wire is 620 ft. The estimated distance from the breaker to the pump is 520 ft, falling within the acceptable length.

Distribution: Water flows from POD to the storage tank. From the storage tank, water flows through a 1-inch pipeline to the household and hose bib connections for lawn and garden. Water from the storage tank is pumped with a Dab Diver VFD cistern pump.

Total Dynamic Head (TDH): The calculated TDH is 330.65 ft of head. TDH is the total amount of pressure (expressed in feet of water or PSI) that a pump must overcome to move water from the source to the point of use. TDH takes into account the total vertical push in feet, the maximum head pressure, and friction loss from the fittings and materials that are in line between the pump and the cistern. The following formula is used to calculate TDH: totalTDH = PumpDepth (elevation difference from POD to cistern) + (outletPressure * 2.31) + Friction Loss + Water Meter PSI.

The estimated elevation difference from the POD (3056 ft) to the cistern storage tank (3111 ft) is 55' of lift or head. The potential build-up or outlet pressure is set at 60 psi or 138.6 ft of head. The length of 2" poly pipe from the POD to the storage cistern is 495'. Friction loss in 495' of 2" poly pipe adds an approximate 10.33' of head. The 2" fittings (elbows, adapters, etc.) add approximately 5' of head. The water usage meter adds 0.7 psi or 1.6' of head. The dole valve restricts the maximum flow capacity of the pump, creating back pressure that can reach as high as 52 psi or 120.12' of added head pressure.

Note: The calculated suction velocity in feet per second in a 2" poly pipe at 30 gpm is 3.49 fps. Per the Franklyn Electric Submersible Pump manual, Suction Velocities should not exceed 8 feet per second. See POD - Friction Loss Charts for more information.

Pump System Sizing: A Franklyn Electric 35 gpm 3 hp pump and motor is capable of pumping the maximum controlled flow rate of 30 gpm with a TDH of 330.65 feet. The pump is capable of producing up to 37 gpm at 330.65 ft of TDH; therefore, an inline 30 gpm max discharge dole valve will be used to ensure compliance with the max gpm granted in the water right. The pump is capable of lifting water as high as 400 ft. All the fittings and materials are rated above the pump system's maximum capable pressure of 173 psi, also known as dead head or shut off pressure. See POD - Pump System Details for more information.

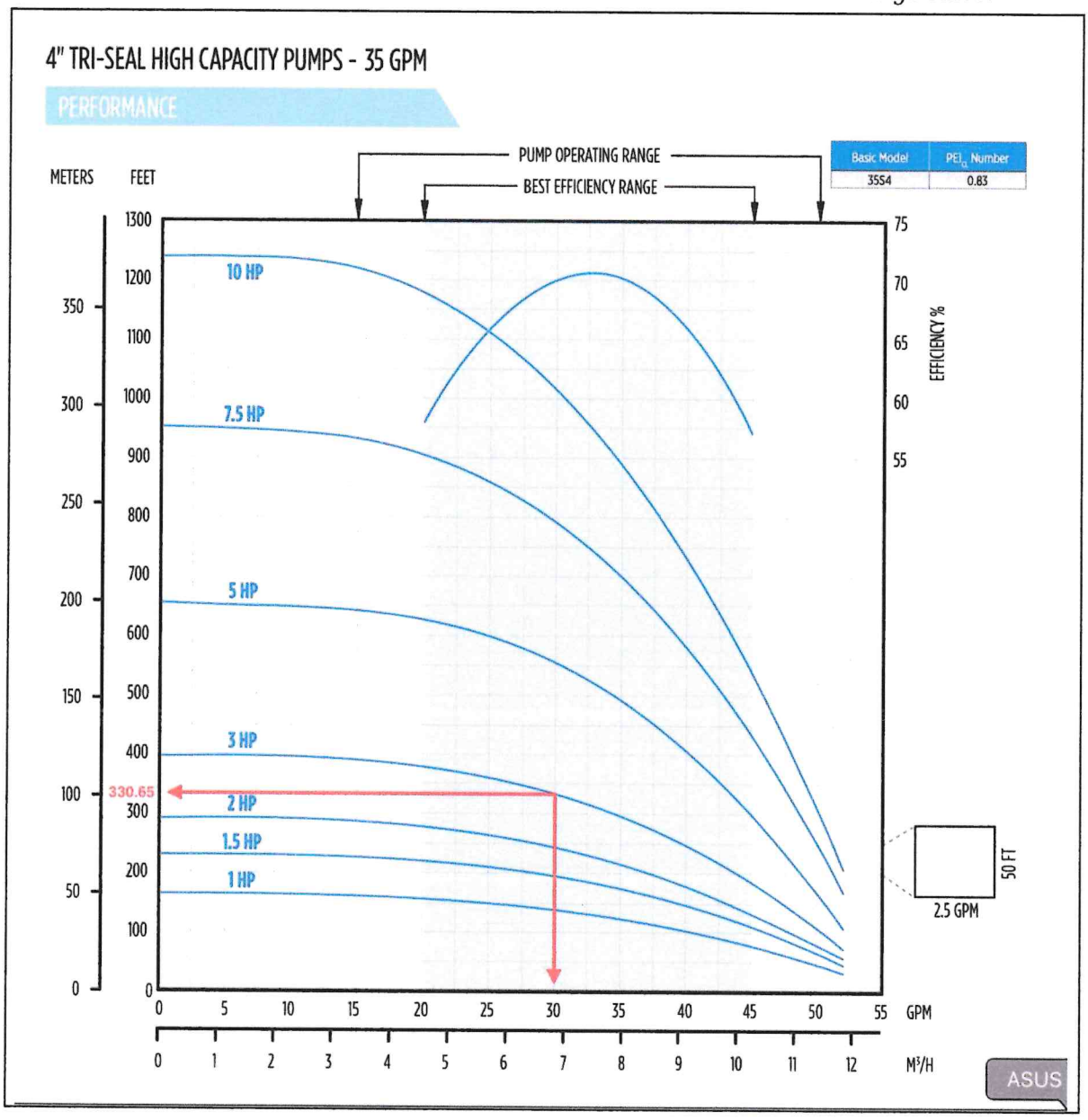
Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at: https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf

POD - Pump System Details

Pump Max Lift: 400 ft. **GPM Optimal Range: 20-45 gpm**

Pump Model: 35 gpm 3HP Pump **Flow Capacity: 30 gpm***

**Note: Max Flow Rate will be controlled with an inline dole valve and discharge valve.*



Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at:
https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf

POD - Friction Loss Charts

Max Lift: 100 ft
Friction Loss: 4.62 ft
Head Pressure: 60 psi (138.6 ft)
Dole Valve Pressure: 52 psi (120.12 ft)

REFERENCES - FRICTION LOSS

PVC SCHEDULE 80 IPS PLASTIC IN 100' OF PIPE

Pipe Size	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		4"	
GPM	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)
1	1.87	1.37	0.42	0.74	0.12	0.45	0.03	0.25	0.01	0.18								
2	6.74	2.74	1.52	1.48	0.44	0.89	0.11	0.50	0.05	0.36	0.01	0.22						
3	14.29	4.11	3.21	2.23	0.93	1.34	0.23	0.75	0.10	0.54	0.03	0.33	0.01	0.23				
4	24.34	5.48	5.47	2.97	1.59	1.78	0.39	1.00	0.18	0.73	0.05	0.43	0.02	0.30				
26					50.81	11.60	12.44	6.50	5.71	4.72	1.64	2.83	0.68	1.97	0.23	1.26	0.06	0.73
28					58.29	12.49	14.27	7.00	6.55	5.08	1.88	3.04	0.78	2.12	0.26	1.36	0.07	0.78
30					66.23	13.38	16.21	7.50	7.44	5.45	2.13	3.26	0.89	2.27	0.30	1.46	0.08	0.84
35							21.57	8.75	9.89	6.35	2.84	3.80	1.18	2.65	0.40	1.70	0.10	0.98
40							27.62	10.00	12.67	7.26	3.63	4.35	1.51	3.03	0.51	1.94	0.13	1.12

NOTES: Suction Velocities should not exceed 8 feet per second. Calculated using Williams and Hazen formula using C = 150.

Pg. 83

REFERENCES - PRESSURE LOSS

WATER METERS AWWA STANDARD

Flow GPM	Pressure Loss (Normal Size)						
	5/8"	3/4"	1"	1-1/2"	2"	3"	4"
1	0.2	0.1					
2	0.3	0.2					
24		9.5	3.4	1.2			
26		11.2	4.0	1.4			
28		13.0	4.6	1.6			
30		15.0	5.3	1.8	0.7		
32			6.0	2.1	0.8		
34			6.9	2.4	0.9		
120					11.3	3.4	1.2
130					13.0	3.9	1.4
140					15.1	4.5	1.6
150					17.3	5.1	1.8

Pg. 88

Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at: https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

10/07/2025

DENA & PAUL SZYMAREK
184 STONES THROW LN
COLUMBIA FALLS, MT 59912-8677

Subject: Correct and Complete Application for Beneficial Water Use Permit No. 76LJ 30171486

Dear Applicant,

The Department of Natural Resources and Conservation (Department) has determined that your application is correct and complete pursuant to ARM 36.12.1601. Please remember that correct and complete **does not mean that your application will be granted.** The purpose of this letter is to indicate that the Department has enough information to analyze your water right application.

The Department will issue a Draft Preliminary Determination within 60 days of the date of this letter per §85-2-307(2)(b), MCA.

Following issuance of the Draft Preliminary Determination, you (Applicant) will have 15 business days to request an extension of time to submit additional information, if desired pursuant to §85-2-307(3)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to grant your application or grant your application in modified form, the Department will prepare a notice of opportunity to provide public comment, per §85-2-307(4)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to deny your application, the Department will adopt the Draft Preliminary Determination as the final determination per §85-2-307(3)(d)(ii), MCA.

If you have any questions or concerns about the application process, please contact me.

Best,

Joseph P. Howerton

Joseph Howerton
Water Resource Specialist
Kalispell Regional Office
406-752-2702; Joseph.Howerton@mt.gov

From:	Wilson, Travis
To:	paul szymarek
Cc:	Ferch, James; Howerton, Joseph; ateam@altowellandpump.com
Subject:	RE: Montana DNRC - 76LJ 30165108 Application for Paul & Dena Szymarek
Date:	Monday, July 21, 2025 9:17:30 AM
Attachments:	T1_76LJ 30165108_Szymarek_Termination_07.09.2025.pdf image001.png image002.png

Good morning, Paul,

I mailed the Notice of Termination letter to both you and Clinton Post on July 9, 2025. The information provided in the deficiency letter response was not sufficient to declare the application correct and complete and thus the application was terminated per:

- Administrative Rules of Montana 36.12.1501(2) PERMIT AND CHANGE APPLICATION DEFICIENCY LETTER AND TERMINATION | Administrative Rules of Montana and
- Montana Code Annotated § 85-2-302(6)(a) and (b) 85-2-302. Application for permit or change in appropriation right, MCA

I have attached a copy of the letter.

Please let me know if you have any questions.

Take care,
Travis

Travis Wilson | Water Resource Specialist
Water Rights Bureau, New Appropriations, Kalispell Regional Office
Montana Department of Natural Resources and Conservation
655 Timberwolf Pkwy, Ste. 4, Kalispell, MT 59901
DESK: 406-752-2746 **EMAIL:** Travis.Wilson@mt.gov
Website | **Facebook** | **X (Twitter)** | **Instagram**
How did we do? Let us know here: Feedback Survey

Interested in Montana stream flows? Check out our Stream and Gage Explorer:
https://gis.dnrc.mt.gov/apps/StAGE/

From: Howerton, Joseph <Joseph.Howerton@mt.gov>
Sent: Monday, July 21, 2025 9:04 AM
To: paul szymarek <psboerne@hotmail.com>
Cc: Wilson, Travis <Travis.Wilson@mt.gov>; Ferch, James <JFerch@mt.gov>
Subject: RE: Montana DNRC - 76LJ 30165108 Application for Paul & Dena Szymarek

Your application was terminated as of July 9th. It was determined that the Deficiency Letter response was inadequate and that the application could not be declared as correct and

complete. I've cc'ed Travis Wilson if you would like more information on how this determination was made.

Regards,

Joseph Howerton | Water Conservation Specialist
Water Rights Bureau, New Appropriations, Kalispell Regional Office
Montana Department of Natural Resources and Conservation
655 Timberwolf Pkwy, Ste. 4, Kalispell, MT 59901
DESK: 406-752-2702 **EMAIL**: Joseph.Howerton@mt.gov
Website | **Facebook** | **X (Twitter)** | **Instagram**
How did we do? Let us know here: Feedback Survey

From: paul szymarek <psboerne@hotmail.com>
Sent: Sunday, July 20, 2025 6:42 PM
To: Howerton, Joseph <Joseph.Howerton@mt.gov>
Subject: [EXTERNAL] Re: Montana DNRC - 76LJ 30165108 Application for Paul & Dena Szymarek

Can you please give me an update on status?

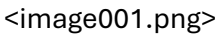
We are here now an really need the water!

Thanks, Paul

From: paul szymarek <psboerne@hotmail.com>
Sent: Saturday, June 21, 2025 6:18 PM
To: Joseph Howerton <Joseph.Howerton@mt.gov>
Subject: Re: Montana DNRC - 76LJ 30165108 Application for Paul & Dena Szymarek

Thank you
Sent from my iPhone

> On Jun 11, 2025, at 12:38 PM, Howerton, Joseph <Joseph.Howerton@mt.gov> wrote:
>
> Good morning to you all,
>
> I wanted to provide a courtesy notice that Clint stopped by this morning to provide updated information & resources in response to the deficiency letter. I will provide further updates as DNRC processes this application and will reach out if I need any other information.
>
> Regards,



Joseph Howerton | Water Conservation Specialist
Water Rights Bureau, New Appropriations, Kalispell Regional Office
Montana Department of Natural Resources and Conservation
655 Timberwolf Pkwy, Ste. 4, Kalispell, MT 59901
DESK: 406-752-2702 **EMAIL**: Joseph.Howerton@mt.gov
Website | **Facebook** [facebook.com] | **X (Twitter** [twitter.com]**)** | **Instagram** [instagram.com]
How did we do? Let us know here: Feedback Survey [forms.office.com]

Application Materials

- Application
- Any information submitted with Application including maps

Application Materials

APPLICATION FOR
BENEFICIAL WATER USE PERMIT
§ 85-2-302, MCA

Form No. 600 *(02/2025)*

For Department Use Only

RECEIVED
DNRC Water Resources

OCT 15 2025

Kalispell Unit

Application # 30171486 Basin 76LJ
Priority Date 09/16/2025 Time 12:00 AM/PM
Rec'd By Joseph Howerton
Fee Rec'd $ 700.00 Check # 104
Deposit Receipt # KLU2604756
Payor Paul Szymarek
Refund $ ~~0.00~~ JPH Date ~~09/16/2025~~ JPH

FILING FEE

$2900/$1600 – Inside a Basin Closure Area, Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.

$2500/$1200 – Outside a Basin Closure Area; Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.

INFORMATION

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)). If application is eligible for a filing fee reduction, $500 paid for Form 600P-B will be credited toward filing fees shown above.

Applicant Information: ***Add more as necessary.***

Applicant Name Paul & Dena Szymarek
Mailing Address 215 W. Bandera Rd. City Boerne State TX Zip 78006
Phone Numbers: Home 210-835-6239 Work _____ Cell _____
Email Address psboerne@hotmail.com

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Contact/Representative Information: ***Add more as necessary.***

Contact/Representative is: ☐ Applicant ☐ Consultant ☐ Attorney ☑ Other
Contact/Representative Name Clinton Post (Pump Technician)
Mailing Address 37 Starlight Dr. City Kalispell State MT Zip 59901
Phone Numbers: Home 406-800-1081 Work 406-800-1175 Cell _____
Email Address ateam@altowellandpump.com

NOTE: *If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary (ARM 36.12.122(2)). If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondences, and a copy may be sent to the contact person (ARM 36.12.122(3)).*

Answer every question and applicable follow-up questions. Use the checkboxes to denote yes ("Y"), no ("N"), or not applicable ("NA"). Questions that require items to be submitted to the Department have a submitted ("S") checkbox, which is marked when the required item is attached to the Application. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, specify "see attachment" on this form, and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and "see attachment" must be entered as a response to the relevant question. Clearly label all units in tables and narrative responses.

PREAPPLICATION AND TECHNICAL ANALYSES INFORMATION

1. ☑ **Y** ☐ **N** Do you elect for Department technical analyses to be used for criteria assessment?

2. ☑ **Y** ☐ **N** Did you have a preapplication meeting AND complete a Permit Preapplication Meeting Form Part A and Part B (Form 600P-A and 600P-B)?

IF QUESTION 2 IS NO, answer 2.a and 2.b:

2.a. ☐ **S** Submit the Technical Analyses Addendum (Form 600-TAA).

2.b. ☐ **S** ☐ **NA** Submit the technical analyses, if you elected in question 1 for Applicant technical analyses to be used for criteria assessment. Select "NA" if you elected for Departmental technical analyses.

IF QUESTION 2 IS YES, answer 2.c, 2.d, and 2.e:

2.c. ☐ **Y** ☑ **N** Has any element of the project described in this application changed from the mandatory elements of the project described in the completed form 600P? **If yes:**
2.c.i. Please explain.

_____
_____
_____
_____
_____
_____

2.c.ii. ☐ **S** Submit the Technical Analyses Addendum (Form 600-TAA).

2.d. ☑ **Y** ☐ **N** Are the technical analyses to be used for criteria assessment exactly the same as those completed during the preapplication process? **If no:**
2.d.i. Please explain.

_____
_____
_____
_____
_____

2.d.ii. ☐ **S** Submit the Technical Analyses Addendum (Form 600-TAA).

2.e. ☑ **Y** ☐ **N** Did you elect in Question 1 for Department technical analyses to be used for criteria assessment? **If no:**
2.e.i. ☐ **S** Submit the technical analyses.

APPLICATION ADDENDA AND REVIEW

3. ☐ **S** ☑ **NA** If your application is for groundwater, not surface water, and one or more of your points of diversion are in a Basin Closure Area, then submit the Basin Closure Area Addendum (Form 600-BCA).

4. ☐ **S** ☑ **NA** If your application is for groundwater and one or more points of diversion are in a Basin Closure Area, then your project must have a Hydrogeologic Report that conforms with MCA 85-2-361 to comply with the requirements of § 85-2-360, MCA. A Hydrogeologic Report Addendum (Form 600-HRA) or Department Technical Analyses may be used to meet these requirements. Please mark the box below that best applies, then select "S" if submitting a Hydrogeologic Report or "NA" if one is not required. This question does not apply to surface water points of diversion in a Basin Closure Area.

- ☐ If you elected to conduct Technical Analyses, you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
- ☐ If you elected for DNRC to conduct Technical Analyses but did not have a preapplication meeting AND complete a Form 600P Permit Preapplication Meeting Form (or changes have occurred since the completed Form 600P), you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
- ☐ If you elected for DNRC to conduct Technical Analyses, had a preapplication meeting, completed a Form 600P, and the Technical Analyses remain unchanged since the preapplication meeting, you do not need to submit Form 600-HRA because the Department's Technical Analyses meet the report requirements of § 85-2-360 and § 85-2-361, MCA.

5. ☐ **S** ☑ **NA** If the project is for one or more groundwater points of diversion located in a Controlled Groundwater Area, then submit the Controlled Groundwater Area Addendum (Form 600-CGWA).

6. ☐ **S** ☑ **NA** If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, then submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B).

7. ☐ **S** ☑ **NA** If the project involves out-of-state water use, then submit the Out-of-State Use Addendum (Form 600/606-OSA).

8. ☐ **S** ☑ **NA** If you require mitigation water to meet the criteria of issuance, then submit a Mitigation Purpose Addendum (Form 600/606-MIT).

9. ☐ **S** ☑ **NA** If the proposed purposes include marketing or selling water, (not marketing for mitigation/ aquifer recharge), then submit the Marketing Purpose Addendum (Form 600/606-WMA).

10. ☐ **S** ☑ **NA** If the project involves one or more places of storage, then submit a Permit Storage Addendum (Form 600-SA). This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).

11. ☐ **S** ☑ **NA** If the project is in designated sage grouse habitat, then submit a review letter from the Montana Sage Grouse Habitat Conservation Program.

12. ☐ **S** ☑ **NA** If the project includes a point of diversion and/or place of use on State of Montana Trust Land, submit documentation of consent from the DNRC Trust Lands Management Division.

13. ☐ **S** ☑ **NA** You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to §85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.

PURPOSE AND DIVERSION INFORMATION

14. ☐ **Y** ☑ **N** Is the proposed use temporary?

14.a. If yes, when will the appropriation cease? _____

15. Is the proposed source surface water or groundwater? Surface Water

16. What is the source name? Flathead River

17. ☐ **S** Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners; township and range; north arrow; scale bar; all proposed points of diversion labeled with a unique Point of Diversion (POD) ID number and, if applicable, GWIC number; all proposed places of use; all proposed conveyance facilities and or routes; all proposed places of storage labeled with a unique Storage ID number; and places of use (POU) for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

18. Fill out the table below. Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

Purpose	**Means of Diversion**	**Acres Irrigated** (if appl.)	**Period of Diversion** *(Month/Day - Month/Day)*	**Period of Use** *(Month/Day - Month/Day)*	**Flow Rate** ☑ *GPM* ☐ *CFS*	**Volume** *(Acre-Feet)*
Domestic	Pump		01/01 - 12/31	01/01 - 12/31	30	1.08
				Total Flow Rate and Volume Required	30	1.08

19. ☐ **Y** ☐ **N** Does the proposed use include on or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the following table, where applicable.

Purpose	**Requested Information**	**Response**
Domestic or multiple domestic	Number of dwellings	1 Dwelling
Stock	Number of animal units	NA
Irrigation	Method of irrigation type (sprinkler or flood) and subtype (if flood: level border, graded border, furrow, contour ditch, or other; if sprinkler: center pivot, wheel line, or other)	Sprinkler. < 10gpm
Irrigation (flood only)	Design slope	NA

POINT(S) OF DIVERSION

20. Describe the proposed location of the point(s) diversion to the nearest ¼ ¼ ¼ Section. Label each POD with the POD ID number used for the project map (question 17).

POD #	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot
1	SE	NE	SE	32	31N	19W	FLATHEAD					

PLACE OF USE

21. What are the geocodes of the place of use?

07-4295-32-4-01-20-0000	

22. Describe the legal land description for the proposed place of use and, if applying for an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Gov. Lot	Block	¼	¼	¼	Sec.	Twp.	Rge.	County
0.25	6		SE	N	SE	32	31N	19W	FLATHEAD

SUPPLEMENTAL AND OVERLAPPING WATER RIGHTS

23. ☑ **Y** ☐ **N** Will other water rights supplement or overlap the place of use to contribute to the purpose(s)?

23.a. If yes, summarize how the supplemental and proposed water rights will be operated as a whole to serve the purpose(s).

Existing well supplies domestic use at a low flow rate. Applicant will apply for groundwater certificate water right. River water right being sought as alternate source.

24. For each supplemental or overlapping water right, please list the water right number, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed to the shared place of use.

Water Right #	Average Period of Diversion	Average Period of Use	Flow Rate	Volume Contributed
Not filed yet				

25. ☐ **Y** ☑ **N** Will this application supplement contract water from a Federal Project, ditch company, or other source?

25.a. If yes, explain.

ADVERSE EFFECT

26. Explain how you can control your diversion in response to a call being made.

Curb stop shut off at POD, pump deactivation with controller and breaker. Reliance on storage usage and active monitoring and responsiveness to diversion system.

27. Describe any plans you have for ensuring existing water rights will be satisfied during times of water shortage.

Prioritize existing rights, reduction or cessation of diversion in shortage events, utilize back up storage, monitor/control flow rate & volume, and coordinate with authorities to comply with any temporary restrictions.

28. ☐ **Y** ☑ **N** Are you aware of any calls that have been made on the source of supply or, if groundwater, on nearby surface water sources?

28.a. If yes, explain.

29. ☐ **Y** ☑ **N** Does a water commissioner distribute water or oversee water distribution on your proposed source?

29.a. If yes, list the source(s).

30. ☐ **Y** ☑ **N** Do other water rights share any of the proposed points of diversion?

30.a. If yes, describe how the proposed project will not adversely affect these water rights.

31. ☐ **Y** ☑ **N** Do other water rights share any conveyance infrastructure associated with the proposed project?

31.a. If yes, describe how the proposed project will not adversely affect these water rights.

ADEQUATE MEANS OF DIVERSION AND OPERATION

32. ☐ **S** Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

33. Describe specific information about the capacity of all proposed diversionary structures. This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length.

See the following attachments:
~~POD - Size and Configuration of Infrastructure~~
~~POD - Pump System Details~~
POD - Friction Loss Charts
POD - Operation Diagram

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods.

See the following attachments:
~~POD - Size and Configuration of Infrastructure~~
~~POD - Pump System Details~~
POD - Friction Loss Charts
POD - Operation Diagram

35. Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion.

Based on stream gage data, the water is physically and legally available in the amount ~~required. See: USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.~~
~~The system is completely contained. Losses are negligible from the buried storage tank.~~
Float switches will prevent overflow.
See: Q72 - Water Availability

36. Provide a plan of operations, which includes specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.

See the following attachments:
~~POD - Size and Configuration of Infrastructure~~
~~POD - Pump System Details~~
~~POD - Friction Loss Charts~~
POD- Operation Diagram

37. ☐ **Y** ☑ **N** Does the proposed conveyance require easements?

37.a. If yes, explain.

38. ☑ **Y** ☐ **N** Do you own the land where all proposed points of diversion are located?

38.a. ☐ **S** If no, submit documentation to show you have the right to use all points of diversion located on each property you do not own. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.

39. ☐ **Y** ☑ **N** Will your system be designed to discharge water from the project?

IF YES,

39.a. Explain the wastewater disposal method.

39.b. ☐ **Y** ☐ **N** ☐ **NA** Have the necessary permits been obtained to comply with §§ 75-5-410 and 85-2-364, MCA?

40. ☑ **Y** ☐ **N** Do you have any plans to measure your diversion and use?

40.a. If yes, describe the plan and the type of measurements you will take.

Using an in-line water in between the POD and cistern. A secondary monitor is available ~~with the cistern pump's vfd control which monitors GPM and total gallons pumped.~~

41. ☐ **Y** ☑ **N** Is the means of diversion for any proposed point of diversion a well?

IF YES,

41.a. ☐ **Y** ☐ **N** Have all wells been drilled?

41.b. For all wells that have been drilled, what is the name of the well driller and, if available, what is their license number?

_____

41.c. ☐ **Y** ☐ **N** For all wells yet to be drilled, will a licensed well driller construct the wells?

41.d. ☐ **S** ☐ **NA** Submit any well logs not yet submitted to the Department.

BENEFICIAL USE

42. ☑ **Y** ☐ **N** Does the Department have a volume, period of diversion, or period of use standard for the purposes for which water is proposed? Department standards can be found in the DNRC Water Calculation Guide, ARM 36.12.112, and ARM 36.12.115.

42.a. ☑ **Y** ☐ **N** If yes, do all proposed beneficial uses fall within Department standards?

42.b. If no Department standard exists, or if any proposed beneficial use falls outside of Department standards, explain how the requested flow rate and volume are reasonable for the purpose.

_____
_____
_____
_____
_____
_____
_____
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_____
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_____
_____

43. ☐ **Y** ☑ **N** Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?

44. ☑ **Y** ☐ **N** Are you proposing to use surface water for in-house domestic use?

44.a. ☐ **Y** ☑ **N** If yes, does a COSA exist for the proposed place of use?

44.a.i. ☐ **S** ☐ **NA** If yes, please submit the COSA.

44.a.ii. ☑ **Y** ☐ **N** If no, have you researched or consulted with DEQ regarding their requirements?

POSSESSORY INTEREST

45. ☐ **Y** ☑ **N** Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use.

45.a. If yes, explain.

_____

_____

_____

_____

46. ☑ **Y** ☐ **N** ☐ **NA** Do you own all proposed places of use? Mark "NA" if you meet one of the exceptions to the possessory interest requirement.

IF NO,

46.a. ☐ **S** Explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use.

_____

_____

_____

_____

_____

_____

_____

46.b. ☐ **Y** ☐ **N** Would you like the water right to be appurtenant to the land? Please note that if your water right is not appurtenant to land it will not transfer by default with the conveyance of the property, pursuant to § 85-2-403, MCA.

46.b.i. If no, explain.

_____

_____

_____

PROPOSED COMPLETION PERIOD

47. How much time will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 617)? 1-year or less

48. Please describe why this amount of time is needed to complete this project.
The time needed to complete and be granted the requested water right and the time to complet the construction of the corresponding water system.

_____

_____

AFFIDAVIT & CERTIFICATION

Read carefully before you sign and review with legal counsel if you have any questions. All owners (or trustees) must sign the form. ***If the owner is a business or trust, include the title of the representative(s) signing the form (i.e., president, trustee, managing partner, etc.) and provide documentation that establishes the authority of the representative to sign the application.*

I affirm the information provided for this application is to the best of my knowledge true and correct. If a preapplication meeting form was submitted, I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if upon submittal of the application to the Department, I changed any element of the proposed application from the preapplication meeting form and follow-up materials (ARM 36.12.1302(6)(a)).

I affirm I have possessory interest, or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use, unless this application meets an exception to the possessory interest requirements in ARM 36.12.1802(1)(b).

I understand that making a false statement under oath or affirmation in this application and official proceedings throughout the examination of my application may subject me to prosecution under § 45-7-202, MCA, a misdemeanor punishable by a jail term not to exceed 6 months or a fine not to exceed $500, or both. I have read this Affidavit and understand the terms and conditions.

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

Printed Name Paul Szymarek

Applicant Signature _____ Date: 9-16-25

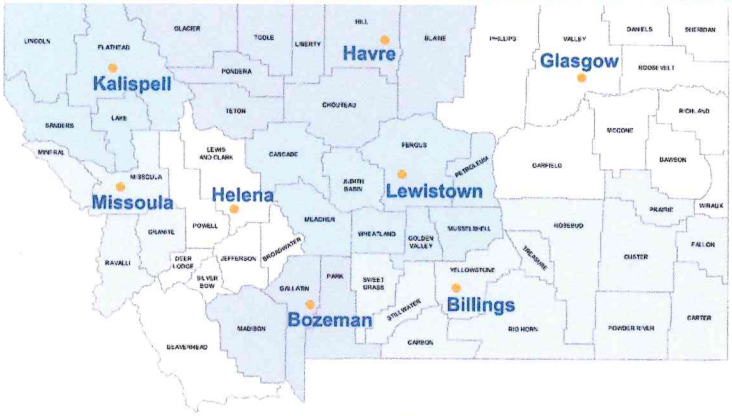
Printed Name Dena Szymarek

Applicant Signature _____ Date: 9-16-25

Printed Name _____

Applicant Signature _____ Date: _____

WATER RESOURCES REGIONAL OFFICES



BILLINGS
Airport Industrial Park, 1371 Rimtop Dr
Billings, MT 59105-9702

PHONE 406-247-4415 FAX 406-247-4416
EMAIL DNRCBillingsWater@mt.gov

Big Horn, Carbon, Carter, Custer, Fallon, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, and Yellowstone Counties

BOZEMAN
2273 Boot Hill Court, Suite 110
Bozeman, MT 59715-7249

PHONE 406-586-3136 FAX 406-587-9726
EMAIL DNRCBozemanWater@mt.gov

Gallatin, Madison, and Park Counties

GLASGOW
222 6th Street South, PO Box 1269
Glasgow, MT 59230-1269

PHONE 406-228-2561
EMAIL DNRCGlasgowWater@mt.gov

Daniels, Dawson, Garfield, McCone, Phillips, Richland, Roosevelt, Sheridan, Valley, and Wibaux Counties

HAVRE
210 6th Ave., PO Box 1828
Havre, MT 59501-1828

PHONE 406-265-5516
EMAIL DNRCHavreWater@mt.gov

Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties

HELENA
1424 9th Ave., PO Box 201601,
Helena, MT 59620-1601

PHONE 406-444-6999 FAX 406-444-9317
EMAIL DNRCHelenaWater@mt.gov

Beaverhead, Broadwater, Deer Lodge, Jefferson, Lewis and Clark, Powell, and Silver Bow Counties

KALISPELL
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901-1215

PHONE 406-752-2288
EMAIL DNRCKalispellWater@mt.gov

Flathead, Lake, Lincoln, and Sanders Counties

LEWISTOWN
613 Northeast Main St., Suite E
Lewistown, MT 59457-2020

PHONE 406-538-7459
EMAIL DNRCLewistownWater@mt.gov

Cascade, Fergus, Golden Valley, Judith Basin, Meagher, Musselshell, Petroleum, and Wheatland Counties

MISSOULA
2705 Spurgin Rd. Bldg. C, PO Box 5004
Missoula, MT 59806-5004

PHONE 406-721-4284 FAX 406-542-5899
EMAIL DNRCMissoulaWater@mt.gov

Granite, Mineral, Missoula, and Ravalli Counties

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

February 21, 2025

DENA & PAUL SZYMAREK
215 W BANDERA RD STE 114
BOX 246
BOERNE TX 78006-2842

Subject: Completed Technical Analyses Report for Beneficial Water Use Preapplication No. 76LJ 30165108

Dear Applicants,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30165108 based on the information provided in your Preapplication Meeting Form accepted by the Department on January 8, 2025. The technical analyses can be found in the attached report.

This Technical Analyses Report **IS**: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit an application for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT**: An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria (§85-2-311, MCA).

You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analyses and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by August 20, 2025, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any details described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

If you have any questions, please contact me at (406) 752-2746 or Travis.Wilson@mt.gov.

Sincerely,

Travis Wilson
Water Resource Specialist
Kalispell Regional Water Resource Office

Encl.: Technical Analyses Report

Cc via email: Clinton Post, Applicants' Representative.

Water Resources Division - Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

09/12/2025

DENA & PAUL SZYMAREK
184 STONES THROW LN
KALISPELL, MT
59912-8677

Subject: Complete Technical Analysis Report for Beneficial Water Use Permit Preapplication No. 76LJ 30171486

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30171486 based on the information provided in your Preapplication Meeting Form accepted by the Department on August 8, 2025. The technical analyses can be found in the attached report. Please note this Beneficial Water Use Permit Preapplication Technical Analyses Report is a two-part publication, comprised of a Part A completed by Water Sciences Bureau staff, and a Part B completed by Kalispell Regional Office staff.

This Technical Analyses Report IS: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit an application for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT:** An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria (§85-2-[311], MCA).

You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analysis and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by March 11, 2026, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any elements described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

Please let me know if you have any questions.

Best,

Joseph P. Howerton

Joseph Howerton
Water Resources Specialist
Kalispell Regional Office
Joseph.Howerton@mt.gov
406-752-2702

CC:

Clinton Post
37 Star Light Dr
Kalispell, MT 59901

Surface Water Permit Technical Analyses Report

Department of Natural Resources and Conservation (DNRC or Department)
Water Resources Division
Travis Wilson, Water Resource Specialist, Kalispell Regional Office

Application No.	76LJ 30165108	**Proposed Point of Diversion**	SENESE S32 T31N R19W FLATHEAD
Applicant	SZYMAREK, PAUL S & DENA M		

Overview

This report analyzes data submitted by the Applicant in support of Application No. 76LJ 30165108. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-311, Montana Code Annotated (MCA).

This Surface Water Permit Technical Analyses Report contains the following sections:

Variances

No variances were requested.

1.0 Application Details

The Applicant proposes to divert water from the Flathead River at a point in the SENESE of Section 32, Township 31N, Range 19W, Flathead County, Montana for domestic and lawn and garden uses. Diversion will occur at a flow rate of 30.0 gallons per minute (GPM) from January 1 to December 31

for the domestic use and from April 25 to October 5 for the lawn and garden use. The Applicant requests 1.08 acre-feet (AF) of volume total: 0.45 AF for domestic use and 0.63 AF for 0.25 acres of lawn and garden irrigation in the SENESE of Section 32, Township 31N, Range 19W, Flathead County, Montana.

2.0 Surface Water Analysis

2.1 Source Description

Proposed Source of Water: Flathead River

Proposed Source Type: Perennial

Proposed Point of Diversion (POD): SENESE of Section 32, Township 31N, Range 19W, Flathead County

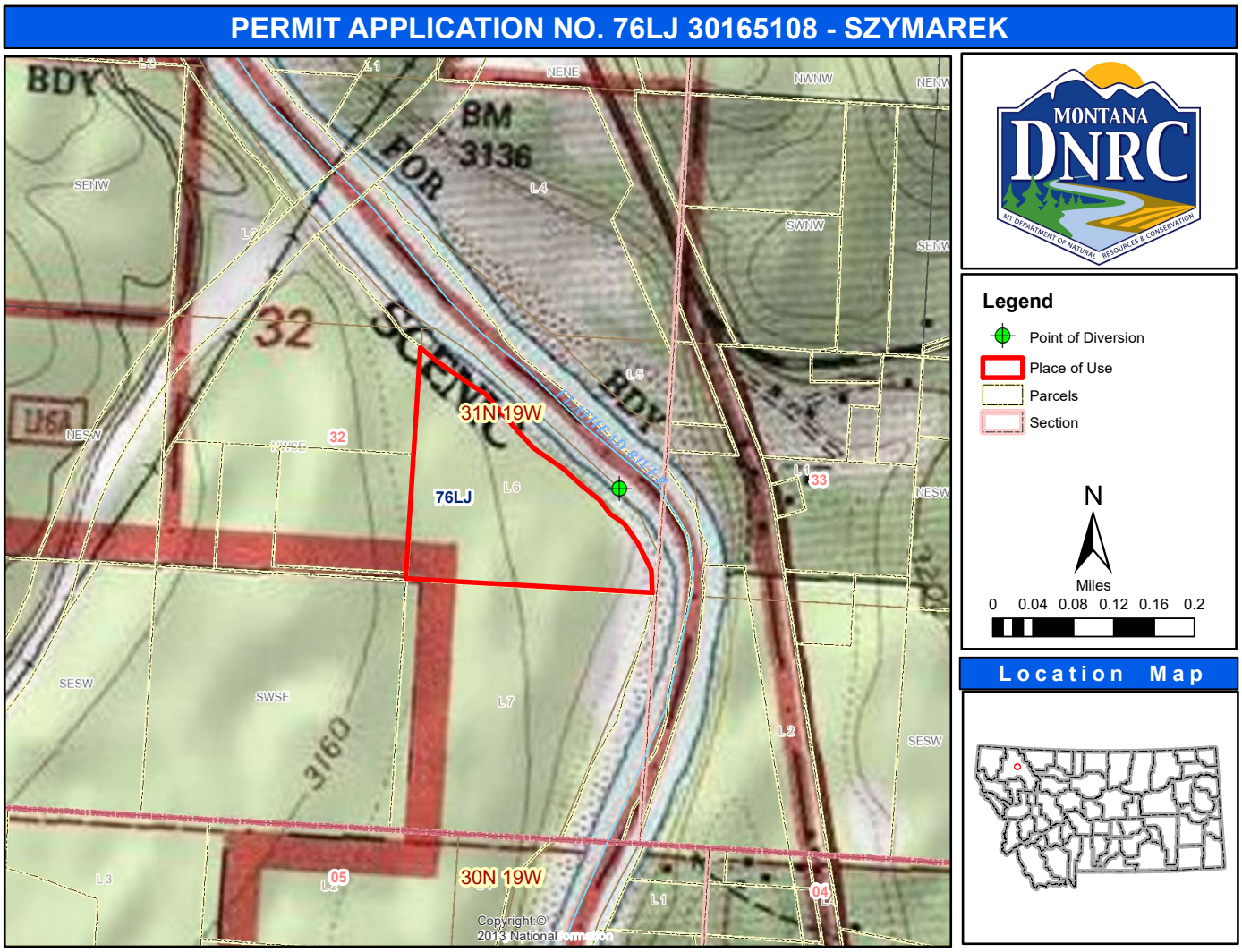


Figure 1: Proposed point of diversion and place of use.

2.2 Method of Estimation

United States Geological Survey (USGS) Gaging Station Numbers/Names/Periods of Record:

- No. 12363000 Flathead River at Columbia Falls, MT
  - Period of record: October 1951 – November 2024
- No. 12362500 South Fork Flathead River near Columbia Falls, MT
  - Period of record: February 1911 – August 2024

Why these gages and date ranges are appropriate:

USGS Gaging Station No. 12363000 is the nearest gaging station to the proposed POD on the Flathead River. The proposed POD for this application is approximately 9.1 miles upstream of this gaging station. The date range used includes the entire period of record for this gage.

The South Fork Flathead River contributes flow and volume to the Flathead River between the proposed POD and USGS Gaging Station No. 12363000. The South Fork Flathead River flows into the Flathead River approximately 3.4 miles downstream of the proposed POD and 5.7 miles upstream of USGS Gaging Station No. 12363000. USGS Gaging Station No. 12362500 is the nearest gaging station on the South Fork Flathead River to its confluence with the Flathead River and is located approximately 3.6 miles upstream of this confluence. The date range used includes the entire period of record for this gage.

2.3 Monthly Flow Rate and Volume

Methodology:

The Department calculated median of the mean monthly flow rates in cubic feet per second (CFS) for the Flathead River and the South Fork Flathead River using records from USGS Gaging Station Nos. 12363000 and 12362500, respectively, for each month of the proposed period of diversion (Table 1, columns B and D, respectively). Those flows were converted to monthly volumes in AF (Table 1, columns C and E, respectively) using the following equation found in the DNRC Water Calculation Guide: median of the mean monthly flow (CFS) × 1.98 (AF/day/1 CFS) × days per month = AF/month.

There are no existing water rights filed on the South Fork Flathead River between USGS Gaging Station No. 12362500 and the confluence with the Flathead River, so the monthly flows and volumes at the gaging station are representative of the monthly flows and volumes contributed to the Flathead River by the South Fork Flathead River (Table 1, columns D-E).

The Department calculated the monthly flows appropriated by existing users on the Flathead River between the proposed POD and USGS Gaging Station No. 12363000 (Table 1, column F) by:

i. Generating a list of existing surface water rights (legal demands) from the proposed POD down to USGS Gaging Station No. 12363000 (Appendix A);

ii. Designating uses as occurring during their claimed/permitted periods of diversion; and,

iii. Assuming that the flow rate of each existing right is continuously diverted throughout each month of its period of diversion. This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion. This

leads to an overestimation of legal demands on the physical volume of water. The Department finds this an appropriate measure of assessing existing rights as it protects existing water users.

Since USGS Gaging Station No. 12363000 is downstream of the proposed POD, any diversions of water from the Flathead River between the proposed POD and USGS Gaging Station No. 12363000 must be added to the monthly gaging station values, while any additions of water between the proposed POD and USGS Gaging Station No. 12363000 must be subtracted from the monthly gaging station values in order to calculate the water physically available at the proposed POD. Since instream flow water rights are neither diverted from nor added to the physical volume of water, they are not used in the calculations for physical availability.

The Department subtracted out the monthly flows of the South Fork Flathead River (Table 1, columns D) from the monthly flows of the Flathead River at USGS Gaging Station No. 12363000 (Table 1, columns B) and added in the monthly flows and volumes of the existing diverted water rights between the proposed POD and USGS Gaging Station No. 12363000 (Table 1, column F) to determine the physically available monthly flows at the proposed POD (Table 1, column G). Physically available monthly flows were then converted to monthly volumes (Table 1, column H).

Table 1: Physical Availability Analysis of the Flathead River at the Proposed POD

A	B	C	D	E	F	G	H
	Flathead River		South Fork Flathead River				
Month	Median of the Mean Monthly Flow at USGS Gage No. 12363000 (CFS)	Median of the Mean Monthly Volume at USGS Gage No. 12363000 (AF)	Median of the Mean Monthly Flow at USGS Gage No. 12362500 (CFS)	Median of the Mean Monthly Volume at USGS Gage No. 12362500 (AF)	Existing Diverted Legal Demands between the Proposed POD and USGS Gage No. 12363000 (CFS)	Physically Available Water at the POD (CFS)	Physically Available Water at the POD (AF)
January	5,111.5	313,743.9	2,742.5	168,334.7	0.0	2,369.0	145,409.2
February	4,800.5	266,139.7	2,545.0	141,094.8	0.0	2,255.5	125,044.9
March	4,772.0	292,905.4	2,184.0	134,053.9	0.7	2,588.7	158,892.0
April	10,535.0	625,779.0	4,079.0	242,292.6	0.7	6,456.7	383,525.6
May	22,645.0	1,389,950.1	4,468.0	274,245.8	1.6	18,178.6	1,115,799.4
June	24,615.0	1,462,131.0	5,097.0	302,761.8	1.6	19,519.6	1,159,461.3
July	11,280.0	692,366.4	3,150.5	193,377.7	1.6	8,131.1	499,083.8
August	5,403.5	331,666.8	1,660.5	101,921.5	1.6	3,744.6	229,840.5
September	4,423.5	262,755.9	2,065.0	122,661.0	1.6	2,360.1	140,187.0
October	4,903.0	300,946.1	2,030.5	124,632.1	0.0	2,872.5	176,314.1
November	4,527.0	268,903.8	1,912.0	113,572.8	0.0	2,615.0	155,331.0
December	5,498.5	337,497.9	2,444.0	150,012.7	0.0	3,054.5	187,485.2

3.0 Area of Potential Impact (AOPI) Analysis

The Area of Potential Impact for this application is:

The Flathead River from the Applicant's proposed POD downstream to USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

To accurately analyze legal availability, the AOPI will be further divided into two reaches:

- Reach 1: the proposed POD to the confluence of the South Fork Flathead River.
- Reach 2: the confluence of the South Fork Flathead River to USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

The AOPI must be divided into two reaches at the South Fork Flathead River confluence because the instream fish and wildlife water rights held by the State of Montana Department of Fish, Wildlife, and Parks change at this point due to the inflow of water from the South Fork Flathead River.

Why this is an appropriate Area of Potential Impact:

Diversion of water at the proposed POD on the Flathead River would reduce the flow and volume of water in the Flathead River downstream of the POD. The Department recently analyzed the legal availability of water in the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 in permit application no. 76LJ 30161301 (issued December 23, 2024). In that analysis, the Department found legally available monthly flows and volumes in the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 multiple orders of magnitude in excess of this proposed appropriation (Table 2). For this reason, the Department did not extend the AOPI into the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

Table 2: Legal Availability Analysis of the Flathead River from USGS Gaging Station No. 12363000 down to the Flathead Lake Inlet (Findings from Water Right Permit Application No. 76LJ 30161301)

Month	Legally Available Flow: Physically Available Water Minus Existing Legal Demands (CFS)	Legally Available Volume: Physically Available Water Minus Existing Legal Demands (AF)
January	1,603.20	98,403.20
February	1,292.20	71,638.50
March	1,263.70	77,564.70
April	3,865.90	229,637.00
May	14,370.90	882,088.50
June	16,390.90	973,622.00
July	5,833.90	358,087.40
August	1,741.90	106,920.50
September	681.9	40,507.40
October	1,264.90	77,642.20
November	1,037.70	61,638.20
December	1,990.20	122,157.20

Methodology:

To determine the appropriate downstream terminus of the AOPI, the Department considered the characteristics of the source downstream of the proposed appropriation and used its knowledge gained from the recent physical and legal availability analysis of the reach of the Flathead River downstream of USGS Gaging Station No. 12363000.

Review

This document was reviewed by the Department on February 21, 2025.

References

Department Standard Practice for Determining Physical Availability of Surface Water.

- DNRC Technical Memorandum: Physical Availability of Surface Water with Gage Data (2019).

Department Standard Practice for Determining Area of Potential Impact.

Appendix A: Water Rights within the Area of Potential Impact

AOPI Reach 1: Water rights between the proposed POD and the confluence of the South Fork Flathead River			
Water Right Number	Purpose	Flow Rate (CFS)	Period of Diversion
76LJ 147029 00*	FISH AND WILDLIFE	1,950.0	10/01 to 03/31
76LJ 147030 00*	FISH AND WILDLIFE	2,100.0	08/01 to 09/30
76LJ 147031 00*	FISH AND WILDLIFE	5,000.0	05/01 to 07/15
76LJ 147032 00*	FISH AND WILDLIFE	3,597.0	04/16 to 04/30
76LJ 147033 00*	FISH AND WILDLIFE	3,945.0	07/16 to 07/31
76LJ 147034 00*	FISH AND WILDLIFE	2,100.0	04/01 to 04/15
76LJ 148778 00**	FISH AND WILDLIFE	<Null>	01/01 to 12/31
76LJ 148779 00**	FISH AND WILDLIFE	<Null>	01/01 to 12/31

** State of Montana Department of Fish, Wildlife, and Parks instream flow water rights.*

***These water rights' flow rates/volumes will be excluded from calculations of physical/legal availability because no quantified flow rate was claimed, and the claimed volume cannot currently be confirmed due to lack of data. These issues will need to be resolved by the Water Court during the Basin 76LJ decree process. Until that time, the DNRC does not have enough information to include these water rights in the physical/legal availability analysis calculations.*

AOPI Reach 2: Water rights between the confluence of the South Fork Flathead River and USGS Gaging Station No. 12363000			
Water Right Number	Purpose	Flow Rate (CFS)	Period of Diversion
76LJ 147036 00*	FISH AND WILDLIFE	6,650.0	04/16 to 04/30
76LJ 147037 00*	FISH AND WILDLIFE	3,500.0	08/01 to 04/15
76LJ 147038 00*	FISH AND WILDLIFE	5,402.0	07/16 to 07/31
76LJ 147039 00*	FISH AND WILDLIFE	8,125.0	05/01 to 07/15
76LJ 30104140	OTHER PURPOSE	0.7	03/01 to 09/30
76LJ 30002541	INDUSTRIAL	0.9	05/01 to 10/01

** State of Montana Department of Fish, Wildlife, and Parks instream flow water rights.*

Technical Analyses Report/ Scientific Credibility Review

- Departmental Technical Analyses Report/ Scientific Credibility Review
- Any correspondence relating to the Technical Analyses Report

Technical Analyses Report / Scientific Credibility Review

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

February 21, 2025

DENA & PAUL SZYMAREK
215 W BANDERA RD STE 114
BOX 246
BOERNE TX 78006-2842

Subject: Completed Technical Analyses Report for Beneficial Water Use Preapplication No. 76LJ 30165108

Dear Applicants,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30165108 based on the information provided in your Preapplication Meeting Form accepted by the Department on January 8, 2025. The technical analyses can be found in the attached report.

This Technical Analyses Report **IS**: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit an application for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT**: An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria (§85-2-311, MCA).

You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analyses and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by August 20, 2025, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any details described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

If you have any questions, please contact me at (406) 752-2746 or Travis.Wilson@mt.gov.

Sincerely,

Travis Wilson
Water Resource Specialist
Kalispell Regional Water Resource Office

Encl.: Technical Analyses Report

Cc via email: Clinton Post, Applicants' Representative.

Water Resources Division - Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

09/12/2025

DENA & PAUL SZYMAREK
184 STONES THROW LN
KALISPELL, MT
59912-8677

Subject: Complete Technical Analysis Report for Beneficial Water Use Permit Preapplication No. 76LJ 30171486

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30171486 based on the information provided in your Preapplication Meeting Form accepted by the Department on August 8, 2025. The technical analyses can be found in the attached report. Please note this Beneficial Water Use Permit Preapplication Technical Analyses Report is a two-part publication, comprised of a Part A completed by Water Sciences Bureau staff, and a Part B completed by Kalispell Regional Office staff.

This Technical Analyses Report IS: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit an application for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT:** An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria (§85-2-[311], MCA).

You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analysis and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by March 11, 2026, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any elements described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

Please let me know if you have any questions.

Best,

Joseph P. Howerton

Joseph Howerton
Water Resources Specialist
Kalispell Regional Office
Joseph.Howerton@mt.gov
406-752-2702

CC:

Clinton Post
37 Star Light Dr
Kalispell, MT 59901

Surface Water Permit Technical Analyses Report

Department of Natural Resources and Conservation (DNRC or Department)
Water Resources Division
Travis Wilson, Water Resource Specialist, Kalispell Regional Office

Application No.	76LJ 30165108	**Proposed Point of Diversion**	SENESE S32 T31N R19W FLATHEAD
Applicant	SZYMAREK, PAUL S & DENA M		

Overview

This report analyzes data submitted by the Applicant in support of Application No. 76LJ 30165108. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-311, Montana Code Annotated (MCA).

This Surface Water Permit Technical Analyses Report contains the following sections:

Variances

No variances were requested.

1.0 Application Details

The Applicant proposes to divert water from the Flathead River at a point in the SENESE of Section 32, Township 31N, Range 19W, Flathead County, Montana for domestic and lawn and garden uses. Diversion will occur at a flow rate of 30.0 gallons per minute (GPM) from January 1 to December 31

for the domestic use and from April 25 to October 5 for the lawn and garden use. The Applicant requests 1.08 acre-feet (AF) of volume total: 0.45 AF for domestic use and 0.63 AF for 0.25 acres of lawn and garden irrigation in the SENESE of Section 32, Township 31N, Range 19W, Flathead County, Montana.

2.0 Surface Water Analysis

2.1 Source Description

Proposed Source of Water: Flathead River

Proposed Source Type: Perennial

Proposed Point of Diversion (POD): SENESE of Section 32, Township 31N, Range 19W, Flathead County

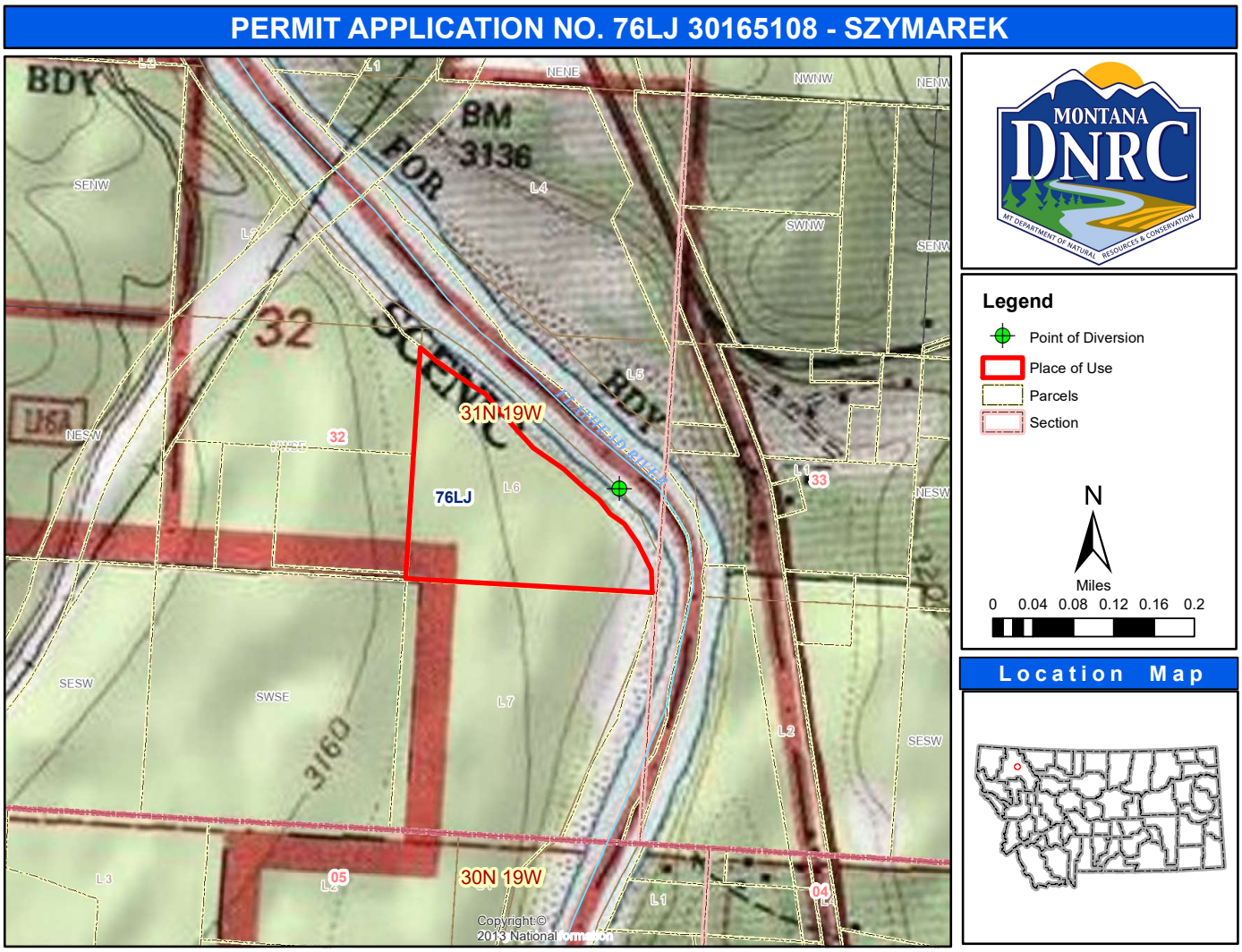


Figure 1: Proposed point of diversion and place of use.

2.2 Method of Estimation

United States Geological Survey (USGS) Gaging Station Numbers/Names/Periods of Record:

- No. 12363000 Flathead River at Columbia Falls, MT
  - Period of record: October 1951 – November 2024
- No. 12362500 South Fork Flathead River near Columbia Falls, MT
  - Period of record: February 1911 – August 2024

Why these gages and date ranges are appropriate:

USGS Gaging Station No. 12363000 is the nearest gaging station to the proposed POD on the Flathead River. The proposed POD for this application is approximately 9.1 miles upstream of this gaging station. The date range used includes the entire period of record for this gage.

The South Fork Flathead River contributes flow and volume to the Flathead River between the proposed POD and USGS Gaging Station No. 12363000. The South Fork Flathead River flows into the Flathead River approximately 3.4 miles downstream of the proposed POD and 5.7 miles upstream of USGS Gaging Station No. 12363000. USGS Gaging Station No. 12362500 is the nearest gaging station on the South Fork Flathead River to its confluence with the Flathead River and is located approximately 3.6 miles upstream of this confluence. The date range used includes the entire period of record for this gage.

2.3 Monthly Flow Rate and Volume

Methodology:

The Department calculated median of the mean monthly flow rates in cubic feet per second (CFS) for the Flathead River and the South Fork Flathead River using records from USGS Gaging Station Nos. 12363000 and 12362500, respectively, for each month of the proposed period of diversion (Table 1, columns B and D, respectively). Those flows were converted to monthly volumes in AF (Table 1, columns C and E, respectively) using the following equation found in the DNRC Water Calculation Guide: median of the mean monthly flow (CFS) × 1.98 (AF/day/1 CFS) × days per month = AF/month.

There are no existing water rights filed on the South Fork Flathead River between USGS Gaging Station No. 12362500 and the confluence with the Flathead River, so the monthly flows and volumes at the gaging station are representative of the monthly flows and volumes contributed to the Flathead River by the South Fork Flathead River (Table 1, columns D-E).

The Department calculated the monthly flows appropriated by existing users on the Flathead River between the proposed POD and USGS Gaging Station No. 12363000 (Table 1, column F) by:

i. Generating a list of existing surface water rights (legal demands) from the proposed POD down to USGS Gaging Station No. 12363000 (Appendix A);

ii. Designating uses as occurring during their claimed/permitted periods of diversion; and,

iii. Assuming that the flow rate of each existing right is continuously diverted throughout each month of its period of diversion. This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion. This

leads to an overestimation of legal demands on the physical volume of water. The Department finds this an appropriate measure of assessing existing rights as it protects existing water users.

Since USGS Gaging Station No. 12363000 is downstream of the proposed POD, any diversions of water from the Flathead River between the proposed POD and USGS Gaging Station No. 12363000 must be added to the monthly gaging station values, while any additions of water between the proposed POD and USGS Gaging Station No. 12363000 must be subtracted from the monthly gaging station values in order to calculate the water physically available at the proposed POD. Since instream flow water rights are neither diverted from nor added to the physical volume of water, they are not used in the calculations for physical availability.

The Department subtracted out the monthly flows of the South Fork Flathead River (Table 1, columns D) from the monthly flows of the Flathead River at USGS Gaging Station No. 12363000 (Table 1, columns B) and added in the monthly flows and volumes of the existing diverted water rights between the proposed POD and USGS Gaging Station No. 12363000 (Table 1, column F) to determine the physically available monthly flows at the proposed POD (Table 1, column G). Physically available monthly flows were then converted to monthly volumes (Table 1, column H).

Table 1: Physical Availability Analysis of the Flathead River at the Proposed POD

A	B	C	D	E	F	G	H
	Flathead River		South Fork Flathead River				
Month	Median of the Mean Monthly Flow at USGS Gage No. 12363000 (CFS)	Median of the Mean Monthly Volume at USGS Gage No. 12363000 (AF)	Median of the Mean Monthly Flow at USGS Gage No. 12362500 (CFS)	Median of the Mean Monthly Volume at USGS Gage No. 12362500 (AF)	Existing Diverted Legal Demands between the Proposed POD and USGS Gage No. 12363000 (CFS)	Physically Available Water at the POD (CFS)	Physically Available Water at the POD (AF)
January	5,111.5	313,743.9	2,742.5	168,334.7	0.0	2,369.0	145,409.2
February	4,800.5	266,139.7	2,545.0	141,094.8	0.0	2,255.5	125,044.9
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June	24,615.0	1,462,131.0	5,097.0	302,761.8	1.6	19,519.6	1,159,461.3
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August	5,403.5	331,666.8	1,660.5	101,921.5	1.6	3,744.6	229,840.5
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3.0 Area of Potential Impact (AOPI) Analysis

The Area of Potential Impact for this application is:

The Flathead River from the Applicant's proposed POD downstream to USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

To accurately analyze legal availability, the AOPI will be further divided into two reaches:

- Reach 1: the proposed POD to the confluence of the South Fork Flathead River.
- Reach 2: the confluence of the South Fork Flathead River to USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

The AOPI must be divided into two reaches at the South Fork Flathead River confluence because the instream fish and wildlife water rights held by the State of Montana Department of Fish, Wildlife, and Parks change at this point due to the inflow of water from the South Fork Flathead River.

Why this is an appropriate Area of Potential Impact:

Diversion of water at the proposed POD on the Flathead River would reduce the flow and volume of water in the Flathead River downstream of the POD. The Department recently analyzed the legal availability of water in the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 in permit application no. 76LJ 30161301 (issued December 23, 2024). In that analysis, the Department found legally available monthly flows and volumes in the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 multiple orders of magnitude in excess of this proposed appropriation (Table 2). For this reason, the Department did not extend the AOPI into the reach of the Flathead River downstream of USGS Gaging Station No. 12363000 Flathead River at Columbia Falls, MT.

Table 2: Legal Availability Analysis of the Flathead River from USGS Gaging Station No. 12363000 down to the Flathead Lake Inlet (Findings from Water Right Permit Application No. 76LJ 30161301)

Month	Legally Available Flow: Physically Available Water Minus Existing Legal Demands (CFS)	Legally Available Volume: Physically Available Water Minus Existing Legal Demands (AF)
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September	681.9	40,507.40
October	1,264.90	77,642.20
November	1,037.70	61,638.20
December	1,990.20	122,157.20

Methodology:

To determine the appropriate downstream terminus of the AOPI, the Department considered the characteristics of the source downstream of the proposed appropriation and used its knowledge gained from the recent physical and legal availability analysis of the reach of the Flathead River downstream of USGS Gaging Station No. 12363000.

Review

This document was reviewed by the Department on February 21, 2025.

References

Department Standard Practice for Determining Physical Availability of Surface Water.

- DNRC Technical Memorandum: Physical Availability of Surface Water with Gage Data (2019).

Department Standard Practice for Determining Area of Potential Impact.

Appendix A: Water Rights within the Area of Potential Impact

AOPI Reach 1: Water rights between the proposed POD and the confluence of the South Fork Flathead River			
Water Right Number	Purpose	Flow Rate (CFS)	Period of Diversion
76LJ 147029 00*	FISH AND WILDLIFE	1,950.0	10/01 to 03/31
76LJ 147030 00*	FISH AND WILDLIFE	2,100.0	08/01 to 09/30
76LJ 147031 00*	FISH AND WILDLIFE	5,000.0	05/01 to 07/15
76LJ 147032 00*	FISH AND WILDLIFE	3,597.0	04/16 to 04/30
76LJ 147033 00*	FISH AND WILDLIFE	3,945.0	07/16 to 07/31
76LJ 147034 00*	FISH AND WILDLIFE	2,100.0	04/01 to 04/15
76LJ 148778 00**	FISH AND WILDLIFE	<Null>	01/01 to 12/31
76LJ 148779 00**	FISH AND WILDLIFE	<Null>	01/01 to 12/31

** State of Montana Department of Fish, Wildlife, and Parks instream flow water rights.*

***These water rights' flow rates/volumes will be excluded from calculations of physical/legal availability because no quantified flow rate was claimed, and the claimed volume cannot currently be confirmed due to lack of data. These issues will need to be resolved by the Water Court during the Basin 76LJ decree process. Until that time, the DNRC does not have enough information to include these water rights in the physical/legal availability analysis calculations.*

AOPI Reach 2: Water rights between the confluence of the South Fork Flathead River and USGS Gaging Station No. 12363000			
Water Right Number	Purpose	Flow Rate (CFS)	Period of Diversion
76LJ 147036 00*	FISH AND WILDLIFE	6,650.0	04/16 to 04/30
76LJ 147037 00*	FISH AND WILDLIFE	3,500.0	08/01 to 04/15
76LJ 147038 00*	FISH AND WILDLIFE	5,402.0	07/16 to 07/31
76LJ 147039 00*	FISH AND WILDLIFE	8,125.0	05/01 to 07/15
76LJ 30104140	OTHER PURPOSE	0.7	03/01 to 09/30
76LJ 30002541	INDUSTRIAL	0.9	05/01 to 10/01

** State of Montana Department of Fish, Wildlife, and Parks instream flow water rights.*

Preapplication Materials

- Preapplication Meeting Request
- Preapplication Meeting Form
- All attachments
- All correspondence prior to application receipt

Preapplication Materials

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

WATER RESOURCES DIVISION – KALISPELL REGIONAL OFFICE
655 TIMBERWOLF PKWY, SUITE 4, KALISPELL, MONTANA 59901 PHONE: (406) 752-2288 FAX: (406) 752-2873

GREG GIANFORTE, GOVERNOR

STATE OF MONTANA

DIRECTOR'S OFFICE: (406) 444-2074
FAX: (406) 444-2684
http://dnrc.mt.gov

PO BOX 201601
HELENA, MONTANA 59620-1601

January 9, 2025

DENA & PAUL SZYMAREK
215 W BANDERA RD STE 114
BOX 246
BOERNE TX 78006-2842

Subject: Complete Preapplication Form for Beneficial Water Use Permit Application No. 76LJ 30165108

Dear Applicants,

The Department of Natural Resources and Conservation (Department) Kalispell Regional Water Resource Office received your Preapplication Meeting Form on January 8, 2025. Your Preapplication Meeting Form is deemed successfully completed per Administrative Rules of Montana (ARM) 36.12.1302.

As designated on the Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department will produce the technical analyses based on the parameters included in the Preapplication Meeting Form (ARM 36.12.1302(4)) within 45 days of January 8, 2025.

If you have any questions, please contact me at (406) 752-2746 or Travis.Wilson@mt.gov.

Sincerely,

Travis Wilson
Water Resource Specialist
Kalispell Regional Water Resource Office

Cc via email: Clinton Post, 37 Starlight Dr., Kalispell, MT 59901

REQUEST FOR PREAPPLICATION MEETING

ARM 36.12.1302(2)
(Revised 01/2024)

RECEIVED
DNRC Water Resources
DEC 19 2024

For Department Use Only

RECEIVED
DNRC Water Resources
DEC 19 2024

Date Received 12/19/2024
Received By Kalispell Unit TW
Scheduled Meeting Date 01/06/2025

Instructions

Use this optional form to submit a written request for a Kalispell Unit preapplication meeting, as required in ARM 36.12.1302(2) for applicants electing to complete a preapplication meeting with the department prior to submitting an application for a beneficial water use permit or change in appropriation right pursuant to §85-2-302, MCA. Use additional sheets as necessary.

Submit this form to the appropriate regional office; see contact information on the last page of this form.

---

1. Applicant Name Paul & Dena Szymarek

Mailing Address 215 W Bandera Rd Ste 114

City Boerne State TX Zip 78006

Home Phone 210-835-6239 Other Phone

Email: psboerne@hotmail.com

2. Representative Name (if other than Applicant) Clinton Post

☒ Representative is Consultant ☐ Representative is Attorney ☐ Representative is Other

Mailing Address

City State Zip

Home Phone 406-800-1081 Other Phone

Email: ateam@altowellandpump.com

3. Are you requesting a preapplication meeting for a permit or change application?

☒ Permit ☐ Change

4. Identify the following elements of the proposed permit or change in appropriation.

a) The flow rate and volume of water required:

Flow Rate 10 ☒ GPM ☐ CFS Volume Acre-Feet

b) The point of diversion:

Point of Diversion #1 SE 1/4 NE 1/4 SW 1/4 Section 32, Township 31 ☐ N ☐ S, Range 19 ☐ E ☒ W

County Flathead

Lot/Tract Block Subdivision Name

Point of Diversion #2 ____1/4 ____1/4 ____1/4 Section ____, Township ____ ☒ N ☐ S, Range ____ ☐ E ☐ W

County

Lot/Tract Block Subdivision Name

c) The place of use:

25 Acres ____ Lot ____ Block SE 1/4 NE 1/4 SW 1/4 Sec 32, Twp 31 ☐ N ☐ S, Rge 19 ☐ E ☒ W

____Acres ____ Lot ____ Block____1/4 ____1/4 ____1/4 Sec ____, Twp ____ ☒ N ☐ S, Rge ____ ☐ E ☐ W

____Acres ____ Lot ____ Block____1/4 ____1/4 ____1/4 Sec ____, Twp ____ ☐ N ☐ S, Rge ____ ☐ E ☐ W

____Acres ____ Lot ____ Block____1/4 ____1/4 ____1/4 Sec ____, Twp ____ ☒ N ☐ S, Rge ____ ☐ E ☐ W

_____Acres ____ Lot ____ Block_____1/4 _____1/4 _____1/4 Sec ____, Twp ____ ☐ N ☐ S, Rge ____ ☐ E ☐ W

d) The source of water: Middle Fork Flathead River

e) The proposed purpose: Domestic

f) For a change in appropriation right, the water right(s) proposed for change:

Type of water right _____ Basin 76LJ Water Right # _____

Type of water right _____ Basin _____ Water Right # _____

Type of water right _____ Basin _____ Water Right # _____

g) For a change in appropriation right, an explanation of historical use of the right(s) proposed for change:

h) Any proposed place of storage, if applicable (only if storage capacity is greater than 0.1 acre-feet):

#1 Capacity: Surface Acres _____ x Max Depth (feet) _____ x (.4 for dams/.5 for pits) = _____Acre-Feet

Location: ____1/4 ____1/4 ____1/4 Section ___, Township 31 ☐ N ☐ S, Range ___ ☐ E ☐ W

#2 Capacity: Surface Acres _____ x Max Depth (feet) _____ x (.4 for dams/.5 for pits) = _____Acre-Feet

Location: ____1/4 ____1/4 ____1/4 Section ___, Township ___ ☐ N ☐ S, Range ___ ☐ E ☐ W

#3 Capacity: Surface Acres _____ x Max Depth (feet) _____ x (.4 for dams/.5 for pits) = _____Acre-Feet

Location: ____1/4 ____1/4 ____1/4 Section ___, Township ___ ☐ N ☐ S, Range ___ ☐ E ☐ W

i) For applications proposing a new well or wells, the well depth(s) and location:

New Well #1 ____1/4 ____1/4 ____1/4 Section ____, Township _____ ☐ N ☐ S, Range _____ ☐ E ☐ W

County _____

Lot/Tract _____ Block_____ Subdivision Name_____

Estimated Well Depth _____ Feet

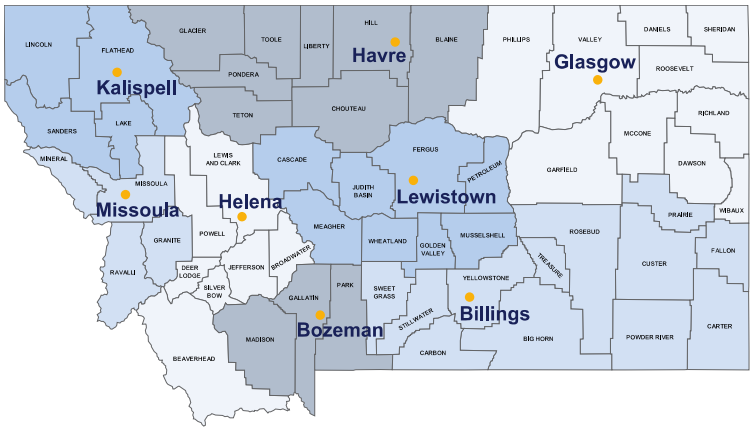
New Well #2 ____1/4 ____1/4 ____1/4 Section ____, Township _____ ☐ N ☐ S, Range _____ ☐ E ☐ W

County _____

Lot/Tract _____ Block_____ Subdivision Name_____

Estimated Well Depth _____ Feet

WATER RESOURCES REGIONAL OFFICES



BILLINGS
Airport Industrial Park, 1371 Rimtop Dr
Billings, MT 59105-9702

PHONE 406-247-4415 FAX 406-247-4416
EMAIL DNRCBillingsWater@mt.gov

Big Horn, Carbon, Carter, Custer, Fallon, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, and Yellowstone Counties

BOZEMAN
2273 Boot Hill Court, Suite 110
Bozeman, MT 59715-7249

PHONE 406-586-3136 FAX 406-587-9726
EMAIL DNRCBozemanWater@mt.gov

Gallatin, Madison, and Park Counties

GLASGOW
222 6th Street South, PO Box 1269
Glasgow, MT 59230-1269

PHONE 406-228-2561
EMAIL DNRCGlasgowWater@mt.gov

Daniels, Dawson, Garfield, McCone, Phillips, Richland, Roosevelt, Sheridan, Valley, and Wibaux Counties

HAVRE
210 6th Ave., PO Box 1828
Havre, MT 59501-1828

PHONE 406-265-5516
EMAIL DNRCHavreWater@mt.gov

Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties

HELENA
1424 9th Ave., PO Box 201601,
Helena, MT 59620-1601

PHONE 406-444-6999 FAX 406-444-9317
EMAIL DNRCHelenaWater@mt.gov

Beaverhead, Broadwater, Deer Lodge, Jefferson, Lewis and Clark, Powell, and Silver Bow Counties

KALISPELL
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901-1215

PHONE 406-752-2288
EMAIL DNRCKalispellWater@mt.gov

Flathead, Lake, Lincoln, and Sanders Counties

LEWISTOWN
613 Northeast Main St., Suite E
Lewistown, MT 59457-2020

PHONE 406-538-7459
EMAIL DNRCLewistownWater@mt.gov

Cascade, Fergus, Golden Valley, Judith Basin, Meagher, Musselshell, Petroleum, and Wheatland Counties

MISSOULA
2705 Spurgin Rd. Bldg. C, PO Box 5004
Missoula, MT 59806-5004

PHONE 406-721-4284 FAX 406-542-5899
EMAIL DNRCMissoulaWater@mt.gov

Granite, Mineral, Missoula, and Ravalli Counties

PREAPPLICATION MEETING FORM: PART A
PERMIT

§ 85-2-302, MCA
Form No. 600P-A *(Revised 03/2025)*

For Department Use Only

Application # 30171486 Basin # 76LJ

Meeting Date 07/30/2025 Time 9:00

Variance Request Deadline 12/15/2025

Completed Form Deadline 01/26/2026

RECEIVED
DNRC Water Resources
JUL 30 2025
Kalispell Unit

PREAPPLICATION MEETING FEE

$ 500

FILING FEE REDUCTION & EXPEDITED TIMELINE

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)).

The Department will fill out Permit Preapplication Meeting Form Part A (Form 600P-A) and will identify items for follow-up during the preapplication meeting. The Department and Applicant will sign the Preapplication Meeting Affidavit and Certification within 10 business days. Within 180 days of the preapplication meeting, the Applicant will complete Preapplication Meeting Form Part B (Form 600P-B), including identified follow-up, any amended responses, and Follow-up and Amended Responses Affidavit & Certification. Variance requests must be submitted on Form 653 to the Department on or before the Variance Request Deadline, which is day 138 of the 180 day-deadline for a completed preapplication meeting form. Form 653 may be submitted earlier than the Variance Request Deadline. The Department has 30 business days to process the Form 653.

Applicant Information: *Add more as necessary.*

Applicant Name Paul & Dena Szymarek
Mailing Address 215 W Bandera Rd Ste 114 City Boerne State TX Zip 78006
Phone Numbers: Home (210) 835-6239 Work _____ Cell _____
Email Address psboerne@hotmail.com

Applicant Name _____
Mailing Address _____ City _____ State _____ Zip _____
Phone Numbers: Home _____ Work _____ Cell _____
Email Address _____

Contact/Representative Information: *Add more as necessary.*

Contact/Representative is: ☐ Applicant ☐ Consultant ☐ Attorney ☑ Other (describe) Pump Tech
Contact/Representative Name Clinton Post
Mailing Address 37 Star Light Dr City Kalispell State MT Zip 59901
Phone Numbers: Home (406) 800-1081 Work _____ Cell _____
Email Address ateam@altowellandpump.com

NOTE: *If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary (ARM 36.12.122(2)). If a contact person is identified as a consultant, employee, or lessee, the applicant will receive all correspondences, and a copy may be sent to the contact person (ARM 36.12.122(3)).*

Meeting Attendees: *Add more as necessary.*

Name	Role	Name	Role
Paul Szymarek	Applicant		
Clinton Post	Consultant / Pump Tech		
Jim Ferch	KRO Manager		
Travis Wilson	Water Resources Specialist		
Joseph Howerton	Water Resources Specialist		

Table of Contents

APPLICATION DETAILS

The following questions are mandatory and must be filled out before the Preapplication Meeting Form is determined to be complete. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment ("A") checkbox on this form and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and the see attachment ("A") checkbox must be marked. Label units in narrative responses and tables. Questions that require Applicant to submit items to the Department have a submitted ("S") checkbox, which is marked when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted. For all questions where follow-up is necessary, mark the "F" checkbox in the "Follow-Up" column and write the question number on the "Follow-Up Page".

S = Submitted. *Use when required item is included with form.*

A = See attachment. *Use when additional space is needed to answer a question.*

F = Follow-up. *Use when follow-up is necessary.*

Questions, Narrative Responses, and Tables	**Check-boxes**	**Follow-up**
1. Do you elect to have DNRC conduct Technical Analyses?	☒ Y ☒ N	☐ F
2. Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all proposed points of diversion labeled with a unique POD ID number (include GWIC ID, if available, for wells), all proposed places of use, all proposed conveyance structures (including ditches and pipelines), all proposed places of storage, and places of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	☒ S	☐ F
3. Is the project located in a Controlled Groundwater Area or Basin Closure Area? If yes, immediately go to Mandatory Project-Specific questions 54 to 56 because Form 600 may be the incorrect form, or this project may not meet the requirements for the Department to accept a Form 600.	☐ Y ☐ N	☐ F
4. Is the proposed use temporary?	☐ Y ☐ N	☐ F
a. If yes, when will the appropriation cease? _____	☐ A	☐ F

5. Describe the proposed purpose information, including period of diversion (MM/DD-MM/DD), period of use (MM/DD-MM/DD), flow rate (GPM or CFS) and volume (AF). ☐ A ☐ F

Purpose	Period of Diversion	Period of Use	Flow Rate			Volume
	(MM/DD-MM/DD)	*(MM/DD-MM/DD)*	*Flow Rate*	*GPM*	*CFS*	*(AF)*
Domestic	1/01-12/31	1/01-12/31	30	☑	☐	0.45
Lawn & Garden	04/25-10/05	04/25-10/05	30	☑	☐	0.63
				☐	☐	
				☐	☐	
				☐	☐	
		Total	30	☐	☐	1.08

6. Does the proposed use include one or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the following table, where applicable. ☒ Y ☐ N ☐ F

Purpose	Requested Information	Response
Domestic or multiple domestic	Number of dwellings	1
Stock	Number of animal units	
Irrigation	Method of irrigation type (sprinkler or flood) and subtype (if flood: level border, graded border, furrow, contour ditch, or other; if sprinkler: center pivot, wheel line, or other)	
Irrigation (flood only)	Design slope	

7. Describe the proposed location of the point(s) diversion to the nearest 10 acres, if source is groundwater (GW) or surface water (SW), source name, and means of diversion (e.g., pump, headgate, well). Label each POD with the POD # used for the project map (question 2). ☐ A ☐ F

POD #	¼	¼	¼	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov Lot	SW or GW	Source Name	Means
1	SE	NE	SE	32	31N	19W	Flathead			4C		6	sw	MF Flathead R	Pump

8. What are the geocodes of the place of use?	☐ A	☐ F

07-4295-32-4-01-20-0000	

9. Describe the legal land description for the proposed place of use and, if an irrigation or lawn and garden purpose, list the number of irrigated acres.	☐ A	☐ F

Acres	Gov't Lot	Block	¼	¼	¼	Sec	Twp	Rge	County
0.25	6		SE	NE	SE	32	31N	19W	Flathead
	Total								

10. Will other water rights supplement or overlap the place of use to contribute to the purpose(s)?	☒ Y ☒ N	☐ F
a. If yes, summarize how the water rights will be operated as a whole to serve the purpose(s). Existing well supplies domestic use at a low flow rate. Applicant will apply for groundwater certificate water right. River water right being sought as an alternate source.	☐ A	☐ F

11. For each supplemental or overlapping water right, please list the water right number, purpose, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed.	☐ A	☐ F

Water Right No.	**Avg. Period of Diversion**	**Avg. Period of Use**	**Flow Rate**			**Volume Contributed**
	MM/DD-MM/DD	*MM/DD-MM/DD*	*Flow Rate*	*GPM*	*CFS*	*AF*
Not filed yet				☑	☐	
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

12. Will this application supplement contract water from a Federal Project, ditch company, or other source?	☐ Y ☒ N	☐ F
a. If yes, explain. _____ _____ _____	☐ A	☐ F
13. Does the project involve one or more places of storage? This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)). If yes, answer the following questions once for each place of storage. Use an "Additional Place of Storage (600P)" sheet if more than one. Additionally, you may choose to answer non-mandatory questions 76 to 80 for place of storage.	☐ Y ☒ N	☐ F
a. Is this application to enlarge an existing reservoir? If yes, list the water right numbers for the existing reservoir. _____	☐ Y ☐ N	☐ F
b. Is the place of storage located on-stream?	☐ Y ☐ N	☐ F
c. What is the capacity of the proposed place of storage or the existing place of storage after it is enlarged? Use bathymetry data, survey, or engineering plans for capacity. Submit the data source used with this form. In lieu of these data sources, use the following equation: *Surface Acres x Maximum Depth (FT) x 0.5 = Capacity (AF)* _____	☐ A	☐ F

d. What is the surface area of the place of storage? _____ _____	☐ A	☐ F
14. Will your system be designed to discharge water from the project?	☐ Y ▣ N	☐ F
a. If yes, explain the wastewater disposal method. A discharge permit may be required to comply with §§ 75-5-410 and 85-2-364, MCA. _____ _____ _____	☐ A	☐ F
15. Does the project involve an appropriation that is greater than 5.5 CFS and 4,000 AF? If yes, you must submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AF (Form 600-B) with application submittal. The criteria are found in §85-2-311(3), MCA.	☐ Y ■ N	☐ F
16. Will you be transporting water for use outside of Montana? If yes, you must submit an Out-of-State Use Addendum (Form 600/606-OSA) with the application. The out-of-state use criteria are outlined in §85-2-402(6), MCA.	☐ Y ■ N	☐ F
17. Does the project include the water marketing purpose? If yes, you may choose to answer non-mandatory questions 81 to 85 for water marketing. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.	☐ Y ■ N	☐ F
18. Are you proposing a point of diversion and/or place of use on State of Montana Trust Land? If yes, documentation of consent from the DNRC Trust Lands Management Division will be required at application submittal.	☐ Y ■ N	☐ F
19. Is the project located in designated sage grouse habitat? If yes, a review letter from the Montana Sage Grouse Habitat Conservation Program will be required at application submittal.	☐ Y ■ N	☐ F

SURFACE WATER

▣ **Applicable**, move on to question 20. ☐ **Not Applicable**, skip to question 30.

The following questions are mandatory for surface water permit applications and must be filled out before the Preapplication Meeting Form is determined to be complete.

Surface Water Analysis

Questions, Narrative Responses, and Tables	**Check-boxes**	**Follow-up**
20. What is the flow rate (GPM or CFS), volume (AF), period of diversion start date and end date (MM/DD-MM/DD), and source type (e.g., perennial, ephemeral) at each point of diversion? Use the same POD # as the project map (question 2) to label each point of diversion.	☐ A	☐ F

POD #	**Flow Rate**			**Volume**	**Period Start**	**Period End**
	Flow Rate	*GPM*	*CFS*	*AF*	*MM/DD*	*MM/DD*
1	30	☑	☐	1.08	01/01	12/31
		☐	☐			
		☐	☐			
		☐	☐			
		☐	☐			

21. Is the source type of the diversion perennial or intermittent, ephemeral, lake, or other? Perennial	☐ A	☐ F

Perennial or intermittent	Answer questions 22 to 25	**Ephemeral**	Answer question 26	**Lake**	Answer question 27	**Other**	Answer questions 28 to 29

Surface Water Analysis: Perennial or Intermittent

▣ **Applicable** ☐ **Not Applicable**

22. Are stream gage data available?	▣ Y ☐ N	☐ F
a. If yes, answer question 23.		
b. If no, answer question 24.		

23. Stream gage data are available.		
a. Is one stream gage located above the most upstream POD and one stream gage located below the most upstream POD?	■ Y ☐ N	☐ F
i. If no, is only one stream gage located near the most upstream POD?	☐ Y ☐ N	☐ F
1. If yes, is the stream gage located upstream or downstream? _____		☐ F
b. List the gage name(s). Write "N/A" for Gage 2 if one gage is available. Gage 1: USGS No. 12363000 Flathead River at Columbia Falls, MT Gage 2: USGS No. 12362500 South Fork Flathead River near Columbia Falls, MT		☐ F
c. What is the distance between the gage(s) and the most upstream POD? Write "N/A" for Gage 2 if one gage is available. Gage 1: 9.1 miles Gage 2: 7.0 miles		☐ F
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the most upstream POD? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, the Regional Office may provide assistance.	☐ Y ■ N	☐ F
i. If yes, explain. _____ _____ _____	☐ A	☐ F
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: October 1951 - November 2024 Gage 2: February 1911 - August 2024		☐ F
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: USGS Gage 2: USGS		☐ F

g. Is each available stream gage operated and maintained by USGS or DNRC?	■ Y ☐ N	☐ F
i. If yes, skip to question 23.h.		
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.		
1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____		☐ F
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
3. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
4. Were requirements established and followed for maintaining a permanent gage datum and meeting specified accuracy limits?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F

h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	■ Y ☐ N	☐ F
i. If yes, record how many meet the standard, then skip to question 54 because this section is complete. 2		☐ F
ii. If no, answer question 24.		
24. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured?	☐ Y ☐ N	☐ F
a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the requirements of ARM 36.12.1702 or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 25.		
b. If yes,		
i. Submit available measurements to the Department.	☐ S	☐ F
ii. Who collected the measurements?	☐ A	☐ F
iii. With what method were the data collected?	☐ A	☐ F
iv. What is the period of record?		☐ F
v. What is the frequency of measurement?		☐ F
vi. Are there gaps in the data?	☐ Y ☐ N	☐ F

1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	☐ A	☐ F
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
1. If yes, explain. _____ _____ _____	☐ A	☐ F
viii. Do available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	☐ Y ☐ N	☐ F
1. If yes, this section is complete. Skip to question 54.		
2. If no, answer question 25.		
25. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for validation of a Department-accepted estimation technique?	☐ Y ☐ N	☐ F
a. If yes,		
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____ _____	☐ A	☐ F
ii. Describe the estimation technique. _____ _____ _____ _____ _____ _____	☐ A	☐ F
b. If no, but a Department-accepted estimation technique will be appropriate for the source:		

i. Will measurements be collected prior to submission of Form 600P-B that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N	☐ F
1. If yes,		
a. With what method will the data be collected? _____ _____	☐ A	☐ F
b. What will be the interval of measurement? _____		☐ F
c. Describe the proposed estimation technique. _____ _____ _____ _____ _____	☐ A	☐ F
2. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(1)(b)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(1)(b) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F
c. If no, because no Department-accepted estimation technique will be appropriate for the source:		
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A	☐ F
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the proposed period of diversion pursuant to ARM 36.12.1702(4)?	☐ Y ☐ N	☐ F

1. If no, will measurements be collected prior to submission of a completed Form 600P that meet the Department's standard of monthly measurements throughout the proposed period of diversion?	☐ Y ☐ N	☐ F
a. If yes, with what method will the data be collected? _____ _____	☐ A	☐ F
b. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(4) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Surface Water Analysis: Ephemeral

☐ **Applicable** ▬ **Not Applicable**

26. Did you elect for the Department to conduct the Technical Analyses?	☐ Y ☐ N	☐ F
a. If yes, do you have climate or drainage area data you would like the Department to consider during Technical Analyses?	☐ Y ☐ N	☐ F
i. If yes, submit this information to the Department.	☐ S	☐ F
b. If no,		
i. Describe the estimation technique you propose to use to estimate physical availability at the point of diversion. _____ _____ _____	☐ A	☐ F
ii. What is the net annual precipitation? Include the source of this information. _____ _____	☐ A	☐ F

iii. What is the drainage area upstream of the point of diversion and how was this figure calculated? _____ _____ _____	☐ A	☐ F

Surface Water Analysis: Lakes

☐ **Applicable** ☒ **Not Applicable**

27. Has the lake volume been quantified by a qualified entity based on bathymetric data?	☐ Y ☐ N	☐ F
a. If yes, provide this information to DNRC.	☐ S	☐ F
b. If no, answer the following questions,		
i. When do you plan to collect this information? _____		☐ F
ii. What data collection method will you use? _____ _____	☐ A	☐ F

Surface Water Analysis: Other

☐ **Applicable** ☒ **Not Applicable**

28. Explain why the source type is “other”. _____ _____	☐ A	☐ F
29. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, answer the following questions,		
i. With what method was the measurement data collected? _____ _____	☐ A	☐ F

ii. What is the measurement interval? _____		☐ F
1. Does the interval meet the Department's standard for monthly measurements throughout the proposed period of diversion pursuant to ARM 36.12.1702(4)?	☐ Y ☐ N	☐ F
a. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline.	☐ Y ☐ N	☐ F
b. If no,		
i. When do you plan to measure? _____		☐ F
ii. What data collection method will be used? _____ _____ _____	☐ A	☐ F
iii. Do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(4) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Area of Potential Impact Analysis

No additional information needed for Technical Analyses.

GROUNDWATER

☐ **Applicable**, move on to question 30. ⬓ **Not Applicable**, skip to question 54.

The following questions are mandatory for groundwater permit applications and must be filled out before the Preapplication Meeting Form is determined to be complete.

Groundwater Analysis for Permits

Questions, Narrative Responses, and Tables	**Check-boxes**	**Follow-up**
30. What is the type of groundwater diversion? _____	☐ A	☐ F

Well/Pumping Pit	Answer questions 31 to 35	**Developed Spring**	Answer question 36	**Pond**	Answer questions 37 to 39

Groundwater Analysis for Permits: Well/Pumping Pit

☐ Applicable ⬓ Not Applicable

31. Per ARM 36.12.121 a 24- or 72-hour aquifer test is required; do you propose not to conduct the test? An 8-hour test will be required, if no aquifer test is completed.	☐ Y ☐ N	☐ F
a. If yes, explain. The Department will let you know if the request is reasonable and identify additional data needs. _____ _____ _____ _____ _____	☐ A	☐ F

32. Submit Aquifer Test Data Form (Form 633). If a variance is requested, Form 633 must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 633 is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
33. Submit the Aquifer Testing Addendum (Form 600/606-ATA) and associated materials (e.g., well logs). If you request a variance, Form 600/606-ATA must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 600/606-ATA is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
34. Are you requesting a variance from ARM 36.12.121? If you are unsure if a variance request will be needed, mark follow-up and answer this question once Form 600/606-ATA and Form 633 are complete. A variance must be requested by the Variance Request Deadline.	☐ Y ☐ N	☐ F
a. If yes, submit Form 653, Form 600/606-ATA, and Form 633 together on or before the Variance Request Deadline.	☐ S	☐ F
b. If no, you may choose to submit Form 600/606-ATA and Form 633 before the Variance Request Deadline, and the Department will review these two forms. However, if the Department determines a variance is needed after the Variance Request Deadline, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).		
35. Have all proposed wells/pumping pits been constructed?	☐ Y ☐ N	☐ F
a. If no, answer the following questions:		
i. Submit a list of the POD IDs for all wells/pumping pits and mark whether they have or have not been constructed.	☐ S	☐ F
ii. When will all proposed wells/pumping pits be constructed? _____		☐ F
iii. Is the requested volume for each proposed well/pumping pit known?	☐ Y ☐ N	☐ F
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with POD ID. _____ _____ _____	☐ A	☐ F

2. If no, what is the total requested volume (AF) and the number of proposed PODs? _____		☐ F

Groundwater Analysis for Permits: Developed Spring

☐ Applicable ■ Not Applicable

36. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, submit the measurements and answer the following questions,	☐ S	☐ F
i. Do you have flow rate (GPM or CFS) and volume measurements?	☐ Y ☐ N	☐ F
ii. With what method were measurements collected? _____ _____	☐ A	☐ F
iii. What is the interval of measurements? _____		☐ F
iv. Is the interval of measurements sufficient to comply with ARM 36.12.1703(1)?	☐ Y ☐ N	☐ F
b. If no, or if measurements do not comply with ARM 36.12.1703(1), answer the following questions. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1703(1). Variances from ARM 36.12.1703(1) are not allowed.		
i. When do you plan to measure? _____		☐ F
ii. With what method and at what interval will measurements be collected? _____ _____	☐ A	☐ F

Groundwater Analysis for Permits: Pond

☐ Applicable ■ Not Applicable

37. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	☐ S	☐ F
38. Submit pond bathymetry data, survey, or engineering plans to the Department.	☐ S	☐ F
39. Is the pond fed or drained by surface water?	☐ Y ☐ N	☐ F
a. If yes,		
i. Explain. _____ _____ _____	☐ A	☐ F
ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F

Surface Water Depletion Analysis

40. Is the type of groundwater diversion for your proposed project a developed spring? If yes, skip to question 45 because this section is complete. If no, move onto question 41.	☐ Y ☐ N	☐ F
41. Is the type of groundwater diversion for your proposed project a pond? If yes, answer question 41.a, then skip to question 45 because this section is complete. If no, move onto question 42.	☐ Y ☐ N	☐ F
a. Will any of the ponds have diversions for out-of-pond use that differ from, if year-round use, an allocation of diverted volume by the number of days in the month, or, if irrigation/lawn and garden use, the 80% dry year net irrigation requirement (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
i. If yes, provide a schedule of the diversions for out-of-pond use in the table below. Use the same POD # as the project map (question 2). Attach any additional schedules with POD # labeled.	☐ A	☐ F

POD #			
Month	**Diversions for Out-of-Pond Use Volume (AF)**	**Month**	**Diversions for Out-of-Pond Use Volume (AF)**
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

42. What is the flow rate (GPM or CFS), volume (AF), and period of diversion required (MM/DD-MM/DD) at each well/pumping pit? What is the well/pumping pit depth (FT), if available, or estimated well/pumping pit depth (FT). Please use the same POD # as the project map (question 2) to match this information with the location information.	☐ A	☐ F

POD #	Flow Rate			Volume	Period of Diversion	Depth	Measured or Estimated
	Flow Rate	*GPM*	*CFS*	*AF*	*MM/DD-MM/DD*	*FT*	
		☐	☐				
		☐	☐				
		☐	☐				
		☐	☐				
		☐	☐				

43. Will any of the *new* wells/pumping pits have a monthly pumping schedule that differs from, if year-round use, an allocation of diverted volume by the number of days in the month, or, if irrigation/lawn and garden use, the 80% dry year net irrigation requirement (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
a. If yes, provide the alternative pumping schedule(s) in the table below. Use the same POD # as the project map (question 2). Attach any additional pumping schedules with POD # labeled.	☐ A	☐ F

POD #				POD #			
Month	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

44. Will one or more *existing* wells/pumping pits be used for the proposed project?	☐ Y ☐ N	☐ F
a. If yes, will any of the *existing* wells/pumping pits have a monthly pumping schedule, before or after the proposed project, that differs from an allocation of diverted volume by the number of days in the month (if year-round use) or the 80% dry year net irrigation requirement (if irrigation/lawn and garden use) (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
i. If yes, provide the pumping schedules before and after the proposed project in the table below. Use the same POD # as the project map (question 2). Attach any additional pumping schedules with POD # and before/after proposed project labeled.	☐ A	☐ F

Before proposed project: POD #				**After proposed project: POD #**			
Month	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

Surface Water Analysis of Depleted Surface Water

45. Based on the preliminary net depletion data provided by the Department at this preapplication meeting, what are the hydraulically connected surface water source(s)? **Net depletion data provided by the Department at the preapplication meeting is preliminary and is subject to change during Technical Analyses. If the source or location of net depletion data changes during Technical Analyses, then surface water analysis of depleted surface water source(s) will reflect the Technical Analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* If the type of groundwater diversion for your proposed project is a developed spring, write "NA" and skip to question 51 because this section is complete. _____	☐ A	☐ F
46. Answer the questions in this section one time for each hydraulically connected source. Use the "Additional Hydraulically Connected Source (600P)" sheet, as necessary. For which hydraulically connected source are you answering questions 47 to 50? _____		☐ F
47. Are stream gage data available?	☐ Y ☐ N	☐ F
a. If yes, answer question 48.		
b. If no, answer question 49.		

48. Stream gage data are available		
a. Is one stream gage located above and one stream gage located below the start of the depleted reach?	☐ Y ☐ N	☐ F
i. If no, is only one stream gage located near the start of the depleted reach?	☐ Y ☐ N	☐ F
1. If yes, is the stream gage upstream or downstream? _____		☐ F
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____		☐ F
c. What is the distance between the gage(s) and the start of the depleted reach? Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____		☐ F
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the start of the depleted reach? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, the Regional Office may provide assistance.	☐ Y ☐ N	☐ F
i. If yes, explain. _____ _____ _____	☐ A	☐ F
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
g. Is each available stream gage operated and maintained by USGS or DNRC?	☐ Y ☐ N	☐ F
i. If yes, skip to question 48.h.		
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.		

1. How frequently is stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____		☐ F
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
3. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions?	☐ Y ☐ N	☐ F
i. If yes, record how many meet the standard, then skip to question 54 because this section is complete. _____		
ii. If no, answer question 49.		
49. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions, is the source otherwise measured?	☐ Y ☐ N	☐ F

a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the Department's measurement standards or, in combination with an approved request to deviate from the Department's standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 50.		
b. If yes,		
i. Submit measurements to the Department.	☐ S	☐ F
ii. Who collected the measurements? _____	☐ A	☐ F
iii. With what method was the data collected? _____ _____	☐ A	☐ F
iv. What is the period of record? _____		☐ F
v. What is the frequency of measurement? _____		☐ F
vi. Are there gaps in the data?	☐ Y ☐ N	☐ F
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	☐ A	☐ F
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
1. If yes, explain. _____ _____ _____	☐ A	☐ F
viii. Do available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions?	☐ Y ☐ N	☐ F
1. If yes, this section is complete. Skip to question 54.		
2. If no, answer question 50.		

50. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N	☐ F
a. If yes,		
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____ _____	☐ A	☐ F
ii. Describe the estimation technique. _____ _____ _____ _____ _____ _____	☐ A	☐ F
b. If no, but a Department-accepted estimation technique will be appropriate for the hydraulically connected surface water source:		
i. Will measurements be collected prior to submission of a completed Form 600P-B that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique?	☐ Y ☐ N	☐ F
1. If yes,		
a. With what method will the data be collected? _____ _____	☐ A	☐ F
b. What will be the interval of measurement? _____		☐ F

c. Describe the proposed estimation technique. _____ _____ _____ _____ _____	☐ A	☐ F
2. If no, do you plan on requesting to deviate from the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a Department-accepted estimation technique? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F
c. If no, because no Department-accepted estimation technique will be appropriate for the hydraulically connected surface water source:		
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A	☐ F
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months with net depletions?	☐ Y ☐ N	☐ F
1. If no, will measurements be collected prior to submission of a completed Form 600P that meet the Department's standard of monthly measurements throughout the months with net depletions?	☐ Y ☐ N	☐ F
a. If yes, with what method will the data be collected? _____ _____	☐ A	☐ F

b. If no, do you plan on requesting to deviate from the Department's standard for monthly measurements throughout the months with net depletions? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Area of Potential Impact Analysis of Depleted Surface Water

All information for area of potential impact of depleted surface water was collected in previous questions.

Hydrogeologic Report

51. Does your project include one or more wells, pumping pits, or ponds that are in a basin closure area? If yes, fill out questions 52 to 53. Your project must have a Hydrogeologic Report that conforms with § 85-2-361 to comply with the requirements of § 85-2-360, MCA. A Hydrogeologic Report Addendum (Form 600-HRA) or Department Technical Analyses may be used to meet these requirements.	☐ Y ☐ N	☐ F
52. Did you elect in question 1 for the Department to conduct the Technical Analyses?	☐ Y ☐ N	☐ F
a. If yes, the Basin Closure Area Addendum (Form 600-BCA), Form 600-HRA, and Hydrogeologic Report are not required at this time. The Department's Technical Analyses will meet requirements of §85-2-360, MCA for a Hydrogeologic Report and Form 600-HRA. Form 600-BCA will be required with application submittal.		
b. If no, submit the Basin Closure Area Addendum (Form 600-BCA) and Hydrogeologic Report Addendum (600-HRA) with your Technical Analyses.	☐ S	☐ F
53. If the Hydrogeologic Report indicates that the proposed groundwater use will impact a surface water source, identify and explain which of the following three options best describes your plan to mitigate depletions of hydraulically connected surface water and respond to the relevant questions below. ☐ Application to Change a Water Right to mitigate the adverse effects created ☐ Alternative mitigation plan ☐ Documentation to show a mitigation plan is not required		
a. Application to Change a Water Right to mitigate the adverse effects created: Submit a summary of your initial proposal. *A separate Preapplication Meeting will be required for each Application to Change a Water right to a mitigation or aquifer recharge purpose to qualify for expedited timelines and reduced filing fees for the project per ARM 36.12.1302(7)(a).*	☐ S	☐ F
b. Alternative mitigation plan: Submit a summary of your initial proposal.	☐ S	☐ F

i. Do you propose to use water with a marketing for mitigation/aquifer recharge purpose?	☐ Y ☐ N	☐ F
1. If yes,		
a. List the change authorization number(s) for all water rights proposed for use. _____	☐ A	☐ F
b. What is the area defined for marketing for all water rights proposed for use? _____	☐ A	☐ F
c. If Marketing for aquifer recharge, submit the analysis of the monthly accretions to hydraulically connected surface water(s); otherwise write “NA”. _____	☐ S	☐ F
c. Documentation to show a mitigation plan is not required: Submit all documentation.	☐ S	☐ F

MANDATORY PROJECT-SPECIFIC QUESTIONS

The following questions are mandatory when applicable and must be filled out before the Preapplication Meeting Form is determined to be complete.

Project-Specific Questions: Controlled Groundwater Areas and Basin Closures

Questions, Narrative Responses, and Tables	Check-boxes	Follow-up
54. Does the project include one or more groundwater points of diversion located in the East Valley Controlled Groundwater Area (EVCGWA)?	☐ Y ■ N	☐ F
a. If yes, is the use over 35 GPM or 10 AF/YR?	☐ Y ☐ N	☐ F
i. If no, this is the incorrect form. Use instead Form 600-EVCGWA: East Valley Controlled Groundwater Area Permit Application.		
ii. If yes, how does this project meet the specific requirements of the East Valley Controlled Groundwater Area? Include any relevant documentation. _____ _____ _____ _____	☐ A	☐ F
b. If no, skip to question 55.		
55. Does the project include one or more groundwater points of diversion located in the Yellowstone Controlled Groundwater Area?	☐ Y ■ N	☐ F
a. If yes, is the proposed flow rate and volume over 35 GPM or 10 AF/YR?	☐ Y ☐ N	☐ F
i. If no, this is the incorrect form. Use instead Form 600-YCGA: Yellowstone Controlled Groundwater Area Permit Application.		
ii. If yes, answer the remaining parts of question 55 and submit *Form 600 YCGA: A Yellowstone Controlled Groundwater Area Addendum Over 35 gallons per minute* with the application.		
1. Does the proposed use require a point of diversion with water temperature of 60 degrees Fahrenheit or more?	☐ Y ☐ N	☐ F
2. If an application is in a basin tributary to a category 3 or 4 stream (generally in or upstream of Yellowstone National Park), submit with the application a report prepared by a qualified professional verifying that the appropriation is not hydrologically connected to surface flow that is tributary to the reserved portion of category 3 or 4 streams.		
b. If no, skip to question 56.		

56. Is the project for surface water or groundwater and subject to one or more of the Controlled Groundwater Areas; administrative, Department ordered, or legislative basin closures; or compact closures listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas) not covered in questions 54 to 55?	☐ Y ☒ N	☐ F
a. If yes, identify each area and describe how the proposed project meets its requirements. An application must meet the specific requirements of the Controlled Groundwater Area or closure to be accepted by the Department. _____ _____ _____ _____ _____ _____ _____ _____ _____	☐ A	☐ F

NON-MANDATORY QUESTIONS FOR CRITERIA ANALYSIS

The following questions are not mandatory. They should be discussed in the Preapplication Meeting, but do not need to be filled out before the Preapplication Meeting Form is determined to be complete.

Adverse Effect

Questions, Narrative Responses, and Tables	Check-boxes
57. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. Prioritize existing water rights; reduction or cessation of diversion in shortage events; utilize back-up storage; monitor flow rate & volume; and coordinate with authorities to comply with any temporary restrictions	☐ A
58. Explain how you can control your diversion in response to call being made. Curb stop shutoff, pump deactivation, active monitoring and responsiveness to the diversion system, and reliance on storage	☐ A
59. Are you aware of any calls that have been made on the source of supply or depleted surface water source?	☐ Y ☒ N
a. If yes, explain.	☐ A
60. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	☐ Y ☒ N

61. Will the point of diversion or conveyance infrastructure be shared with one or more existing water rights?	☐ Y ☒ N
a. If yes, explain how capacity of the shared point of diversion and/or conveyance infrastructure is sufficient for all water rights.	☐ A

Adequate Diversion Means and Operation

62. Submit a diagram of how you will operate your system from the point of diversion to the place of use.	☐ S
63. Describe specific information about the capacity of the diversionary structure(s). This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length. See Attachment: POD - Size and Configuration of Infrastructure; Pump Tech & Applicant will provide additional details	☒ A

64. Describe the size, materials, capacity, and configuration of infrastructure to convey water from point of diversion to place of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods. You may work with the Department to estimate ditch conveyance losses but will need to provide sufficient baseline information; which includes ditch slope, dimensions, length, lining material, soil type, and location. See Attachment: POD - Size and Configuration of Infrastructure; Pump Tech & Applicant will provide additional details; the system is completely contained - losses are negligible from the buried storage tank and float switches will prevent overflow	■ A
65. Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion. Pump Tech & Applicant will provide additional details; the system is completely contained - losses are negligible from the buried storage tank and float switches will prevent overflow	☐ A
66. Provide a plan of operations, which includes specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot. Pump Tech & Applicant will provide additional details	☐ A

67. Does the proposed conveyance require easements?	☐ Y ■ N
a. If yes, explain.	☐ A
68. Do you own the land where all proposed points of diversion are located?	■ Y ☐ N
a. If no, documentation to show you have the right to use all points of diversion located on each property you do not own will be required upon application submittal. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.	
69. Describe any places of storage, including whether drainage devices will be installed, and provide preliminary designs, if available. Preliminary designs will be required at application submittal. See Attachment: POD - Size and Configuration of Infrastructure	■ A
70. Do you have any plans to measure your diversion and use?	■ Y ☐ N
a. If yes, describe the plan and the type of measurements you will take. The VFD submersible pump in the storage tank logs water usage, which allows access to the number of gallons pumped from the cistern	☐ A

Beneficial Use

71. Does the Department have a standard for any of the purposes for which water is used? Department standards can be found in ARM 36.12.112 and ARM 36.12.115.	■ Y ☐ N
a. If yes, list the purposes for which the Department has a standard and note whether the proposed use falls within or outside the standard. Lawn & Garden (L&G) period of diversion is within the department standard established in ARM 36.12.112(1)(c)(v). Domestic and L&G volume is within the department standard established in ARM 36.12.115(2)	

72. If no Departmental standard exists for any proposed purpose, or if any proposed purpose falls outside of Department standards, explain how the use is reasonable for that purpose. _____ _____ _____ _____ _____ _____ _____	☐ A
73. Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?	☐ Y ■ N
a. If yes,	
i. Have you researched or consulted with DEQ regarding those requirements?	☐ Y ☐ N
74. Are you proposing to use surface water for in-house domestic use?	■ Y ☐ N
a. If yes, does a COSA exist for the proposed place of use?	☐ Y ■ N
i. If yes, please submit the COSA.	☐ S
ii. If no, have you researched or consulted with DEQ regarding their requirements?	■ Y ☐ N

Possessory Interest

75. Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use.	☐ Y ▣ N
a. If yes, explain. _____ _____ _____ _____	☐ A

b. If no,	
i. Do you own all proposed places of use?	■ Y ☐ N
1. If no,	
a. Explain. Documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use will be required at application submittal. _____ _____ _____ _____	☐ A
b. Would you like the water right to be appurtenant to the land? Please note that if your water right is not appurtenant to land it will not transfer by default with the conveyance of the property, pursuant to § 85-2-403.	☐ Y ☐ N
i. If no, explain. _____ _____ _____	☐ A

Non-Mandatory Project Specific Questions

Place of Storage

76. Does the proposal include at least one place of storage? If yes, answer questions 77 to 80 for each individual place of storage (use "Additional Place of Storage (600P)" sheet for additional places of storage). A Permit Storage Addendum (Form 600-SA) will be required at application submittal. If no, this section is complete, and you can skip to question 81.	☐ Y ■ N
77. Are preliminary designs available? Preliminary designs will be required at application submittal.	☐ S
a. If yes, submit preliminary designs.	☐ Y ☐ N
78. Will the place of storage be lined?	☐ Y ☐ N
79. What is the annual net evaporation of water from the place of storage, based on the Department's gridded net evaporation layer? If you propose a different method, attach an explanation and justification of the method. _____	☐ A

80. Is the place of storage capacity calculated to be greater than 50 AF?	☐ Y ☐ N
a. If yes, have you made an application to the DNRC Water Operations Bureau for a determination of whether the dam or reservoir is a high-hazard dam? This will be required by application submittal.	☐ Y ☐ N

Project-Specific Questions: Water Marketing

81. Does the proposal include water marketing? If yes, please answer the questions in this section (questions 82 to 85). A Water Marketing Addendum Purpose Addendum (600/606-WMA) will be required at application submittal. If no, this section is complete.	☐ Y ■ N
82. For what purpose(s) will the marketed water be used? _____ _____ _____	☐ A
83. How will you control or limit access to the water? _____ _____ _____	☐ A
84. Do you have contracts for the entire volume and flow rate sought?	☐ Y ☐ N
85. Provide a service area map. Create map on an aerial photograph or topographic map and show the following: general service area boundary, section corners, township and range, scale bar, and north arrow.	☐ S

FOLLOW-UP

The tables below will identify all questions marked for follow-up. Applicant follow-up will be submitted with the completed Preapplication Meeting Form: Part B (Form 600P-B). Applicant will provide all responses to questions marked for follow-up on a separate document entitled "Follow-up Responses." At the preapplication meeting, the Department may offer to provide the Applicant with information pertinent to identified follow-up. In this case, record in the notes column what information the Department will provide and the date by which the Department will email this information to the Applicant. This information will supplement but not replace Applicant follow-up. It is the responsibility of the Applicant to provide all follow-up, including questions supplemented by Department information, in the "Follow-up Responses" document.

The "Follow-up Responses" document must conform to the following standards. Label all responses with the question number. Answer questions in the same format as the form. For responses in the form of checkboxes, write "Y", "N", "S". Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted.

***The Applicant may not alter the Preapplication Meeting Form: Part A (Form 600P-A) signed at the Preapplication Meeting**. Instead, the Applicant must use the Amended Responses procedure defined in Form 600P-B. Do not include additional information for questions that were not marked for follow-up on this table; instead include any additional information pursuant to the process for amending responses defined in Form 600P-B.*

QUESTION #	NOTES
	Applicant will provide additional details relating to system design

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION

"We attest that the information on this form accurately describes the proposed project discussed during the preapplication meeting, and that the items marked for follow-up will require the Applicant to provide additional information before the form is deemed complete."

"Applicant acknowledges that any information provided by the Department during the preapplication meeting is preliminary and subject to change."

"Applicant acknowledges that if the follow-up information provided to the Department substantially changes the proposed project, for example in a way that alters which sections of the form are applicable or which technical analyses are required, or who is to complete the technical analyses, the applicant will need to schedule a new preapplication meeting so that the Department can identify any additional information necessary for completion of the technical analyses (ARM 36.12.1302(3)(c))."

Upon Department receipt of the completed form (within 180 days following the meeting), the Department reserves five business days to return the form to the applicant if:

1 – the completed form does not include all necessary follow-up information identified in the meeting, OR
2 – the completed form is not adequate for the Department to proceed with technical analyses, OR
3 – the applicant has elected to complete technical analyses and has not submitted each piece of technical analysis required, OR
4 – the applicant has substantially changed the details of the proposed project, such as in a way that alters which sections of the form are applicable, which technical analyses are required, or who is to complete the technical analyses.

If the Department returns the form to the Applicant within these five days due to reasons 1-3 above, the Applicant can use the balance of their 180-day period in ARM 36.12.1302(4) or (5) to gather the remaining follow-up information needed. If there is no time remaining in the 180-day period, the Applicant can submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). Even if there is still time remaining, the Applicant can choose to schedule a new preapplication meeting. The Department shall transfer the $500 payment received to the new preapplication meeting or refund the payment to the Applicant if the Applicant desires. If the Department returns the form to the Applicant within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the $500 payment received to the new preapplication meeting or refund the payment to the Applicant if the Applicant desires.

Applicant Signature	Date
Applicant Signature	Date
Department Signature	Date

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION

"We attest that the information on this form accurately describes the proposed project discussed during the preapplication meeting, and that the items marked for follow-up will require the Applicant to provide additional information before the form is deemed complete."

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"Applicant acknowledges that if the follow-up information provided to the Department substantially changes the proposed project, for example in a way that alters which sections of the form are applicable or which technical analyses are required, or who is to complete the technical analyses, the applicant will need to schedule a new preapplication meeting so that the Department can identify any additional information necessary for completion of the technical analyses (ARM 36.12.1302(3)(c))."

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2 – the completed form is not adequate for the Department to proceed with technical analyses, OR
3 – the applicant has elected to complete technical analyses and has not submitted each piece of technical analysis required, OR
4 – the applicant has substantially changed the details of the proposed project, such as in a way that alters which sections of the form are applicable, which technical analyses are required, or who is to complete the technical analyses.

If the Department returns the form to the Applicant within these five days due to reasons 1-3 above, the Applicant can use the balance of their 180-day period in ARM 36.12.1302(4) or (5) to gather the remaining follow-up information needed. If there is no time remaining in the 180-day period, the Applicant can submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). Even if there is still time remaining, the Applicant can choose to schedule a new preapplication meeting. The Department shall transfer the $500 payment received to the new preapplication meeting or refund the payment to the Applicant if the Applicant desires. If the Department returns the form to the Applicant within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the $500 payment received to the new preapplication meeting or refund the payment to the Applicant if the Applicant desires.

Applicant Signature — Date: 8-1-25

Applicant Signature — Date

Department Signature: Joseph P. Howerton — Date: 08-02-2025

PREAPPLICATION MEETING FORM: PART B PERMIT

§ 85-2-302, MCA

Form No. 600P-B *(Revised 02/2025)*

For Department Use Only

Application # 30171486 Basin 76LJ

Form Received SPH

Fee Rec'd $ Waived Check # —

Deposit Receipt # —

Payor Paul Szymarek

Form Returned —

Refund $ — Date 08/01/2025

RECEIVED
DNRC Water Resources
AUG 01 2025
Kalispell Unit

PREAPPLICATION MEETING FEE

$ 500

FILING FEE REDUCTION & EXPEDITED TIMELINE

An application will be eligible for a filing fee reduction and expedited timelines if the Applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of Applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)).

The Applicant is responsible for providing a "Follow-up Responses" document for all follow-up identified in Preapplication Meeting Form Part A (Form 600P-A). The Applicant may not alter Form 600P-A. If a response has changed to a question answered at the preapplication meeting, the Applicant can provide a new response in a separate document entitled "Amended Responses" with the question number labeled.

The following guidelines are applicable to both the "Follow-up Responses" and "Amended Responses" documents. Clearly label all question numbers. Answer questions in the same format as Form 600P-A. For responses in the form of checkboxes, write "Y", "N", or "S". Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is included with the document.

1. ☐ Y ☒ N Are you submitting this form in response to a determination by the Department that a previously submitted Form 600P-B was inadequately completed?

   If yes,

   a. Date form was returned ("Form Returned" date found in "For Department Use Only" box on the previously submitted Form 600P-B): _____

   b. If a "Follow-up Responses" or "Amended Responses" document is required by questions 2 or 3, submit complete updated documents with responses that stand-alone. The Department will only use the most recently submitted "Follow-up Responses" and "Amended Responses" documents for departmental technical analyses or scientific credibility review; the Department will not use multiple versions of a document.

2. ☐ Y ☒ N Were any questions identified as requiring follow-up on Form 600P-A?

   If yes,

   a. ☐ S Submit "Follow-up Responses" document for all questions requiring follow-up.

3. ☐ **Y** ☒ **N** Are you submitting amended responses to any questions from Form 600P-A?

If yes,

a. ☐ **S** Submit "Amended Responses" document and record in the table below each question number with an amended response. The amended response will entirely replace the previous response; the amended response cannot build off the previous response.

Question No.	Question No.	Question No.	Question No.

FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"I attest that this preapplication meeting form (Form 600P-A and Form 600P-B), follow-up, and amended responses accurately portray the proposed project. I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if, upon submittal of the application to the department, I change any element of the proposed application from the preapplication meeting form, amended responses, or follow-up materials (ARM 36.12.1302(6)(a))."

Applicant Signature — Date: 8-1-25

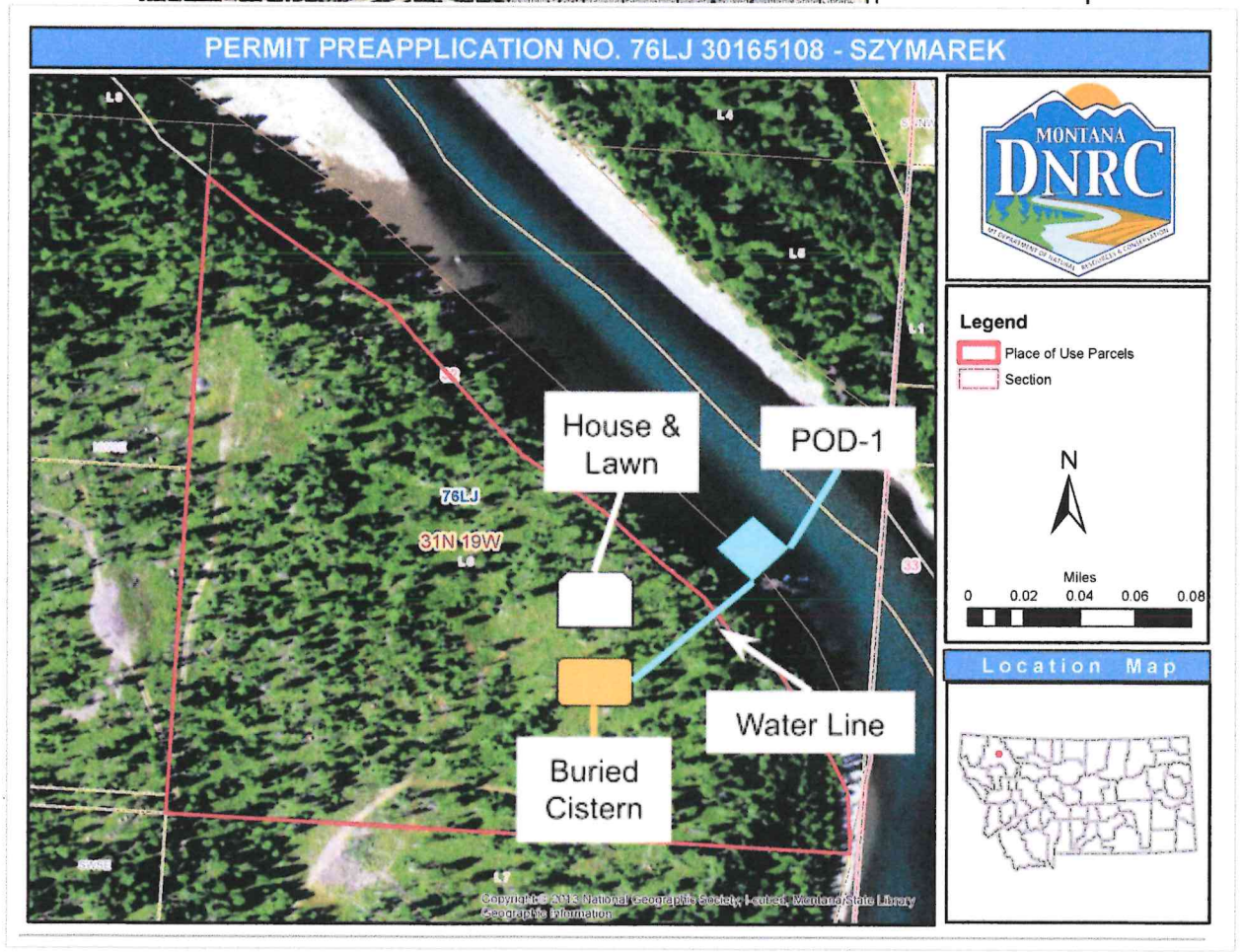
Applicant Signature — Date

"We confirm that the preapplication form (Form 600P-A and Form 600P-B), amended responses, and follow-up information are adequate for the Department to proceed with technical analyses in ARM 36.12.1303. Or, if the Applicant has elected to complete technical analyses, we confirm they have submitted each required element of technical analysis based on the proposed project and the Department is able to proceed with the scientific credibility review (ARM 36.12.1303(8))."

Joseph P. Houseton — Department Signature — Date: 08-02-2025

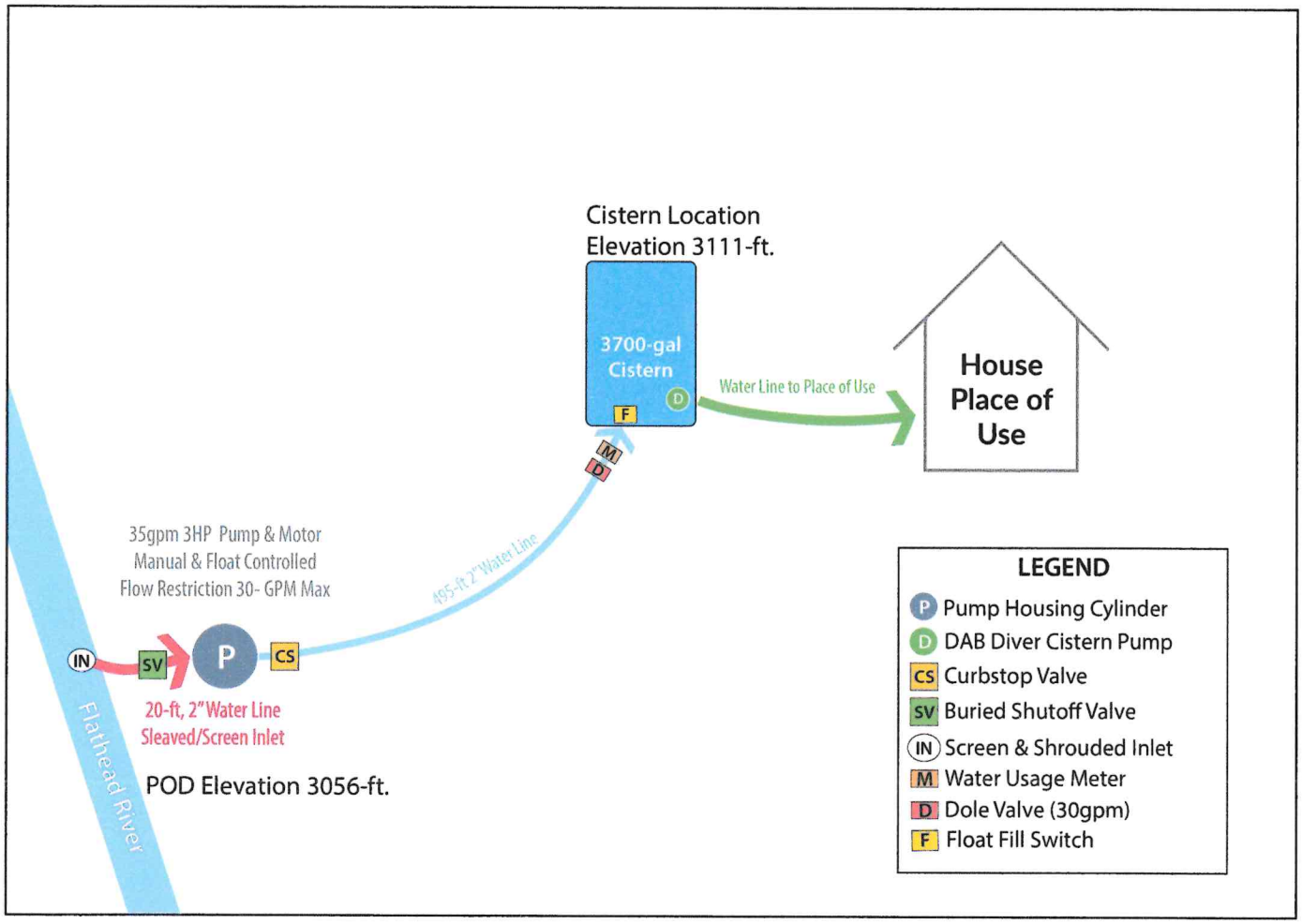
Department Signature — Date

POD - 1



GEO Code: 07-4295-32-4-01-20-0000 | SE NE SE Sec. 32, Twp 31N, Rge 19W | Flathead River

POD - Operation Diagram



POD - Size and Configuration of Infrastructure

Point of Diversion (POD): A 2" poly pipe is buried below the frost line (20 feet from the river edge) to draw water from the Flathead River. The pipe is equipped with a foot valve to screen out debris and to protect aquatic life.

Pump Housing Cylinder: The 2" poly pipe connects to a 10-foot-tall, 6-inch quarter-wall steel pipe with a welded steel cap on the bottom and a sealed vented cap on the top. It is buried 8 feet in the ground. The top of the housing will be 2 feet above the surface for installing and servicing a submersible water pump. A curb stop valve is installed between the pump housing cylinder and the river to control water flow and shut off diversion when necessary manually. The pump will be placed on a pitless adapter below the frost line. This setup ensures efficient water conveyance and protection from freezing conditions.

Storage Tank: The submersible pump conveys water through a 2" poly pipe from the pump housing cylinder to the storage tank with an aerated discharge at the top of the tank. A pump-up float switch activates and deactivates the submersible pump in addition to a manual override switch. A 3700-gallon buried storage tank with a float switch will be used to regulate the water level in the tank and prevent over-pumping. The maximum tank storage capacity is 3700 gallons (0.01135489 AF). The tank provides water for domestic use in the household, as well as for some basic lawn and garden needs.

Electricity: The electrical wire will be heavy-duty, submersible, flat-jacketed wire installed inside electrical conduit. The size of the submersible wire is #10AWG. The max distance that a 3-hp three-phase motor can run on a #10AWG wire is 620 ft. The estimated distance from the breaker to the pump is 520 ft, falling within the acceptable length.

Distribution: Water flows from POD to the storage tank. From the storage tank, water flows through a 1-inch pipeline to the household and hose bib connections for lawn and garden. Water from the storage tank is pumped with a Dab Diver VFD cistern pump.

Total Dynamic Head (TDH): The calculated TDH is 330.65 ft of head. TDH is the total amount of pressure (expressed in feet of water or PSI) that a pump must overcome to move water from the source to the point of use. TDH takes into account the total vertical push in feet, the maximum head pressure, and friction loss from the fittings and materials that are in line between the pump and the cistern. The following formula is used to calculate TDH: totalTDH = PumpDepth (elevation difference from POD to cistern) + (outletPressure * 2.31) + Friction Loss + Water Meter PSI.

The estimated elevation difference from the POD (3056 ft) to the cistern storage tank (3111 ft) is 55' of lift or head. The potential build-up or outlet pressure is set at 60 psi or 138.6 ft of head. The length of 2" poly pipe from the POD to the storage cistern is 495'. Friction loss in 495' of 2" poly pipe adds an approximate 10.33' of head. The 2" fittings (elbows, adapters, etc.) add approximately 5' of head. The water usage meter adds 0.7 psi or 1.6' of head. The dole valve restricts the maximum flow capacity of the pump, creating back pressure that can reach as high as 52 psi or 120.12' of added head pressure.

Note: The calculated suction velocity in feet per second in a 2" poly pipe at 30 gpm is 3.49 fps. Per the Franklyn Electric Submersible Pump manual, Suction Velocities should not exceed 8 feet per second. See POD - Friction Loss Charts for more information.

Pump System Sizing: A Franklyn Electric 35 gpm 3 hp pump and motor is capable of pumping the maximum controlled flow rate of 30 gpm with a TDH of 330.65 feet. The pump is capable of producing up to 37 gpm at 330.65 ft of TDH; therefore, an inline 30 gpm max discharge dole valve will be used to ensure compliance with the max gpm granted in the water right. The pump is capable of lifting water as high as 400 ft. All the fittings and materials are rated above the pump system's maximum capable pressure of 173 psi, also known as dead head or shut off pressure. See POD - Pump System Details for more information.

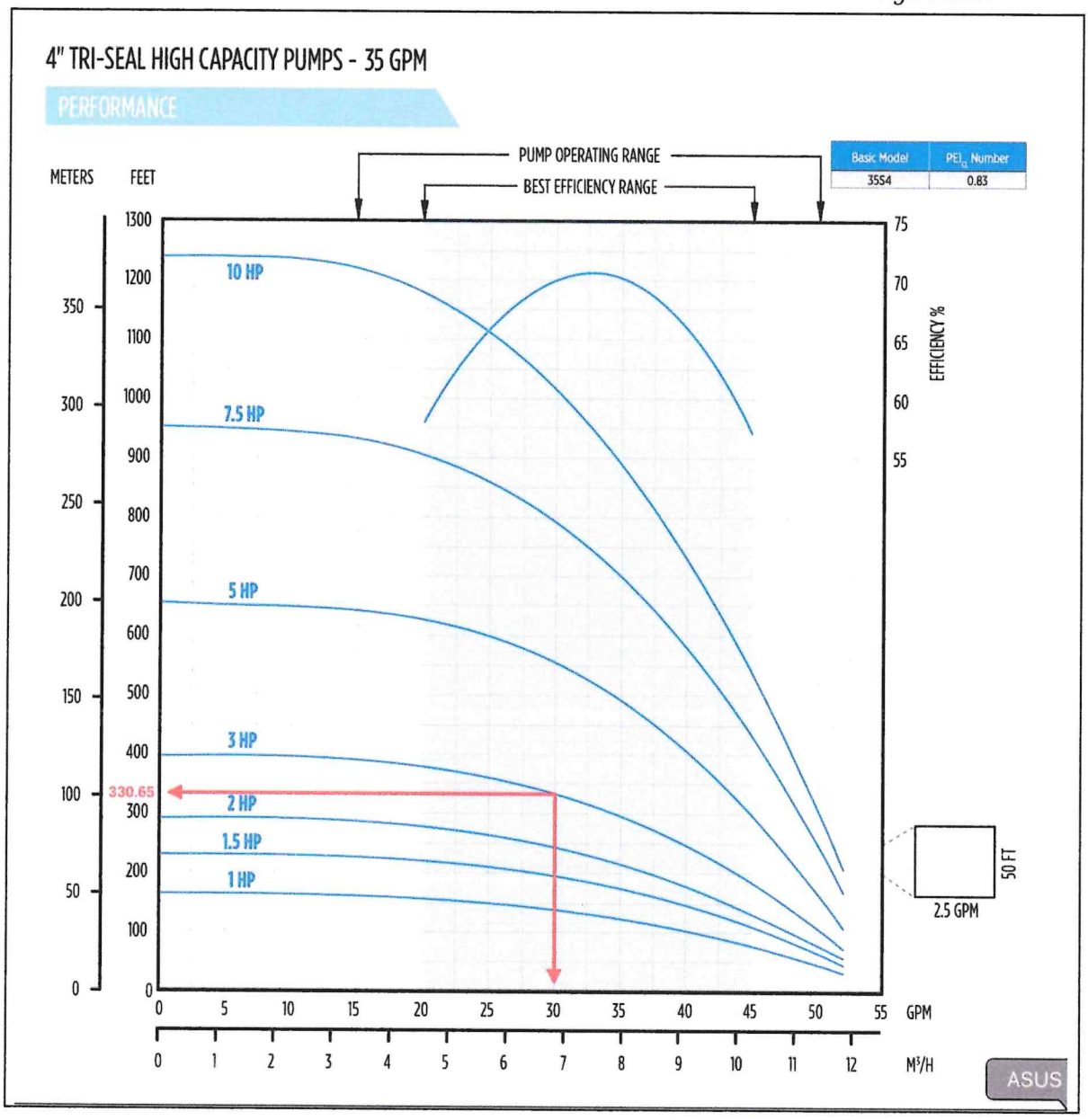
Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at: https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf

POD - Pump System Details

Pump Max Lift: 400 ft. **GPM Optimal Range: 20-45 gpm**

Pump Model: 35 gpm 3HP Pump **Flow Capacity: 30 gpm***

**Note: Max Flow Rate will be controlled with an inline dole valve and discharge valve.*



Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at:
https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf

POD - Friction Loss Charts

Max Lift: 100 ft
Friction Loss: 4.62 ft
Head Pressure: 60 psi (138.6 ft)
Dole Valve Pressure: 52 psi (120.12 ft)

REFERENCES - FRICTION LOSS

PVC SCHEDULE 80 IPS PLASTIC IN 100' OF PIPE

Pipe Size	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		4"	
GPM	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)	Head Loss	Vel (ft/s)
1	1.87	1.37	0.42	0.74	0.12	0.45	0.03	0.25	0.01	0.18								
2	6.74	2.74	1.52	1.48	0.44	0.89	0.11	0.50	0.05	0.36	0.01	0.22						
3	14.29	4.11	3.21	2.23	0.93	1.34	0.23	0.75	0.10	0.54	0.03	0.33	0.01	0.23				
4	24.34	5.48	5.47	2.97	1.59	1.78	0.39	1.00	0.18	0.73	0.05	0.43	0.02	0.30				
26					50.81	11.60	12.44	6.50	5.71	4.72	1.64	2.83	0.68	1.97	0.23	1.26	0.06	0.73
28					58.29	12.49	14.27	7.00	6.55	5.08	1.88	3.04	0.78	2.12	0.26	1.36	0.07	0.78
30					66.23	13.38	16.21	7.50	7.44	5.45	2.13	3.26	0.89	2.27	0.30	1.46	0.08	0.84
35							21.57	8.75	9.89	6.35	2.84	3.80	1.18	2.65	0.40	1.70	0.10	0.98
40							27.62	10.00	12.67	7.26	3.63	4.35	1.51	3.03	0.51	1.94	0.13	1.12

NOTES: Suction Velocities should not exceed 8 feet per second. Calculated using Williams and Hazen formula using C = 150.

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REFERENCES - PRESSURE LOSS

WATER METERS AWWA STANDARD

Flow GPM	Pressure Loss (Normal Size)						
	5/8"	3/4"	1"	1-1/2"	2"	3"	4"
1	0.2	0.1					
2	0.3	0.2					
24		9.5	3.4	1.2			
26		11.2	4.0	1.4			
28		13.0	4.6	1.6			
30		15.0	5.3	1.8	0.7		
32			6.0	2.1	0.8		
34			6.9	2.4	0.9		
120					11.3	3.4	1.2
130					13.0	3.9	1.4
140					15.1	4.5	1.6
150					17.3	5.1	1.8

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Reference: Franklin Electric, FPS Residential Submersible Catalog, MF5060, Franklin Electric Co., Inc., Available at: https://fele.widen.net/content/wipbvw6caq/pdf/MF5060_FPS_Residential_Submersible_Catalog.pdf