

## 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

# THE MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

DIRECTOR'S OFFICE: (406) 444-2074  
PO BOX 201601



1539 ELEVENTH AVENUE  
HELENA, MONTANA 59620-1601

GOVERNOR GREG GIANFORTE

DNRC DIRECTOR AMANDA KASTER

August 7, 2025

Bonnie L. Larsen  
230 Riverfront Ln  
Great Falls, MT 59404-6238

Amanda S. Hendrickson  
215 Riverfront Ln  
Great Falls, MT 59404-6238

Subject: Correct and Complete Application for Change No. 41K 30170695

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.

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

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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.



DNRC

Matt Shaw

Water Resource Specialist

RECEIVED - DNRC

JUL 30 2025

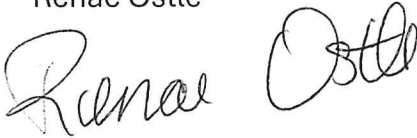
LEWISTOWN WATER  
RESOURCES

We are aware of Bonnie Larsen and Amanda Hendrickson's Application to Change Water Right No. 41K30170695. We give permission for them to put water associated with that change to use for Lawn & Garden irrigation purposes on our property at 200 Riverfront Lane, Great Falls.

John R Ostle

A handwritten signature in cursive script that reads "John R Ostle".

Rena Ostle

A handwritten signature in cursive script that reads "Rena Ostle".

July 19, 2025

To: Montana Department of Natural Resources

From: Tyrone and Mary Robinson

Subject: Changes to Water Right

RECEIVED - DNRC

JUL 22 2025

LEWISTOWN WATER  
RESOURCES

Attn: Mr. Matthew Shaw

We are aware of and give our permission to Bonnie Larsen and Amanda Hendrickson to include our property at 210 Riverfront Lane, Great Falls, MT for Lawn and Garden irrigation in their Application to Change water Right No. 41K 30170695

Tyrone Robinson, Mary Robinson



Mary Robinson



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,



Matthew D. Shaw  
New Appropriations Specialist  
Lewistown Regional Office  
(406) 535-1927  
[matthew.shaw@mt.gov](mailto:matthew.shaw@mt.gov)



## 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

# THE MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

DIRECTOR'S OFFICE: (406) 444-2074  
PO BOX 201601



1539 ELEVENTH AVENUE  
HELENA, MONTANA 59620-1601

GOVERNOR GREG GIANFORTE

DNRC DIRECTOR AMANDA KASTER

June 13, 2025

Bonnie L. Larsen  
230 Riverfront Ln  
Great Falls, MT 59404-6238

Amanda S. Hendrickson  
215 Riverfront Ln  
Great Falls, MT 59404-6238

Subject: Completed Technical Analyses for Water Right Change Preapplication No. 41K 30170695

Dear Applicant,

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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 Water Right Change Preapplication No. 41K 30170695 based on the information provided in your Preapplication Meeting Form accepted by the Department on May 1, 2025. The technical analyses can be found in the attached report. Please note this Water Right Change Technical Analyses Report is a two-part publication, comprised of Part A, completed by New Appropriations Specialist, Matthew Shaw, of the Lewistown Regional Office, and Part B, completed by Groundwater Hydrologist, Kimberly Bolhuis, of Water Sciences Bureau.

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 §85-2-402, 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 (§85-2-402, MCA).



**You have 180 days to submit the Water Right Change Application Form 606 considering the information provided in the technical analyses and Preapplication Meeting Form.** If the Application Form is not submitted to the Lewistown Regional Office by December 10, 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)).

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Please let me know if you have any questions.

Regards,

A handwritten signature in blue ink, appearing to read "Matt D. Shaw".

Matthew D. Shaw  
New Appropriations Specialist  
Lewistown Regional Office  
(406) 535-1927  
[matthew.shaw@mt.gov](mailto:matthew.shaw@mt.gov)





## Surface Water Change Technical Analyses Report – Part A

### Department of Natural Resources and Conservation (DNRC or Department)

#### Water Resources Division

Matthew Shaw, Water Resource Specialist, Lewistown Regional Office

<b>Application No.</b>	41K 30170695	<b>Proposed Point of Diversion</b>	SESENE, Sec. 31, Twp 21N, Rge 2E, Cascade County
<b>Applicant</b>	Bonnie L. Larsen & Amanda S. Hendrickson		

### Overview

This report is Part A of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right application. 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 § 85-2-402 Montana Code Annotated (MCA).

This Surface Water Change Technical Analyses Report – Part A contains the following sections:

Overview .....	1
1.0 Application Details .....	1
2.0 Historical Use Technical Analysis.....	2
2.1 Historical Field Consumed and Applied Volumes.....	2
2.2 Historical Conveyance Losses .....	3
2.3 Historical Diverted Volume .....	3
2.4 Summary of Historical Use .....	4
3.0 Analysis of Impacted Surface Water Sources.....	4
3.1 Summary of Proposed Use.....	4
3.2 Impacted Surface Water Sources .....	5
Review .....	6
References .....	6

### 1.0 Application Details

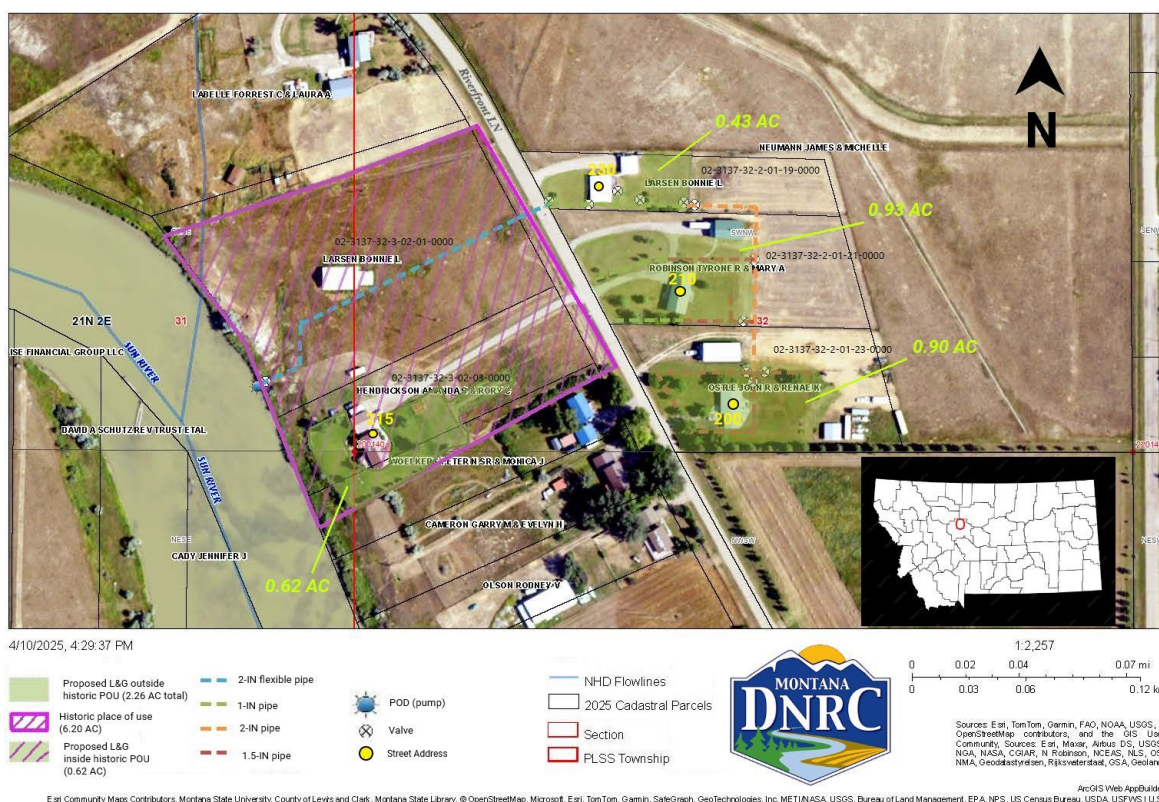
The Applicant proposes to temporarily change the place of use and purpose for Statement of Claim No. 41K 5004-00. The proposed place of use is located in the SWSWNW, Sec. 32, Twp 21N, Rge 2E. The project is in Cascade County and the source is the Sun River.



**Table 1: Water Right(s) Proposed for Change**

Water Right Number	Flow Rate	Volume	Purpose	Period Of Use	Place Of Use	Point(s) Of Diversion	Priority Date
41K 5004-00	38.40 GPM	Historical & Beneficial Use / Unquantified	Irrigation	05/01 to 10/31	SESENE, Sec. 31; SWSWNW, Sec. 32; NWNWSW, Sec 32 All in Twp 21N, Rge 2E, Cascade County	SESENE, Sec. 31, Twp 21N, Rge 2E, Cascade County	10/07/1892

**Project Overview Map--Application to Change a Water Right No. 41K 30170695**



**Figure 1: Project overview map showing the point of diversion and historical and proposed places of use.**

## 2.0 Historical Use Technical Analysis

### 2.1 Historical Field Consumed and Applied Volumes

The consumed volume for irrigation is based on the net irrigation requirement (NIR) from USDA Natural Resources Conservation Service Irrigation Water Requirements (IWR) at a representative



weather station. The NIR is multiplied by a county-wide management factor (from ARM 36.12.1902) to produce an adjusted NIR representative of actual crop yields in Montana. Crop consumption is determined by multiplying the adjusted NIR by the number of acres of irrigation. Crop consumption is then divided by the field efficiency identified from the irrigation method and ARM 36.12.115. Irrecoverable losses (IL) are 5% of the field applied volume for flood irrigation or 10% for sprinkler irrigation. The total consumed volume for irrigation is the crop consumption plus irrecoverable losses. The total non-consumed volume is the field applied volume minus the total consumed volume.

Historically, a total of 6.20 AC was irrigated, via sprinkler. Four places of use, all within Twp 21N, Rge 2E, Cascade County, were claimed. The places of use include 2.12 AC in the SESENE Sec. 31; 3.78 AC in the SWSWNW Sec. 32; 0.12 AC in the NWNWSW Sec. 32; and 0.18 AC in the NENESE Sec. 31. No supplemental rights overlap the historical place of use. No historical places of storage are involved with Statement of Claim No. 41K 5004-00.

The historical consumed and field applied volumes have been calculated with the inputs shown in **Table 2** following the methods described above and in ARM 36.12.1902. As per ARM 36.12.1902(1)(a), a Management Factor of 0.70 is assigned as Statement of Claim No. 41K 5004-00 underwent a previous Change Authorization (Change Application No. 41K-500499, Operational Authority Date of May 27, 1986).

**Table 2:** Historical use.

Irrigation Method	Acres	IWR (in) <sup>1</sup>	Mgmt. Factor <sup>2</sup>	Field Efficiency	Crop Consumption (AF)	Applied Volume (AF)	IL (AF)	Total Consumed Volume (AF)	Field Application Volume (AF)
Sprinkler	6.20	18.10	.70	.70	6.55	9.35	0.94	7.48	9.35

<sup>1</sup>Sun River IWR Weather Station

<sup>2</sup>Cascade County Historical Use Management Factor (1973-2006)

## 2.2 Historical Conveyance Losses

Per ARM 36.12.1902(10), the historical conveyance loss volume is equal to the sum of the historical seepage loss, vegetation loss, and ditch evaporation volumes. There are no historical conveyance losses considered for the historical use of Statement of Claim No. 41K 5004-00 because water was historically conveyed via enclosed pipeline.

## 2.3 Historical Diverted Volume

Per ARM 36.12.1902(10), the historically diverted volume is equal to the sum of the historical field application volume and historical conveyance loss volume. **Table 3** below summarizes the historical field applied and conveyance loss volumes.





**Table 3:** Historic Diverted Volume of Statement of Claim No. 41K 5004-00.

Water Right No.	Field Application Apportionment	Apportioned Field Application Volume	Apportioned Conveyance Loss Volume	Apportioned HDV
41K 5004-00	100%	9.35	NA	9.35

## 2.4 Summary of Historical Use

The Department will consider the following values when evaluating the historical use of Statement of Claim No. 41K 5004-00 for the adverse effect criterion:

**Table 4:** Summary of historical use of Statement of Claim No. 41K 5004-00.

Water Right No.	Historical Purpose	Maximum Historical Acres	Historical Place of Use	Historical Point of Diversion	Maximum Historical Flow Rate (GPM)	Historically Consumed Volume (AF)	Historically Diverted Volume (AF)
41K 5004-00	Irrigation	6.20	SESENE, Sec. 31; SWSWNW, Sec. 32; NWNWSW, Sec 32 All in Twp 21N, Rge 2E, Cascade County	SESENE, Sec. 31, Twp 21N, Rge 2E, Cascade County	38.40	7.48	9.35

## 3.0 Analysis of Impacted Surface Water Sources

### 3.1 Summary of Proposed Use

The Applicant proposes to use Statement of Claim No. 41K 5004-00 as shown in **Table 5**:

**Table 5:** Summary of the proposed use of Statement of Claim No. 41K 5004-00. See below for an explanation of the proposed use.

Water Right No.	Proposed Purpose	Proposed Acres	Proposed Place of Use	Proposed Point of Diversion	Proposed Flow Rate	Proposed Consumptive Volume	Proposed Diverted Volume
41K 5004-00	Lawn & Garden	2.88	Government Lots Nos. 200, 210, 215, & 230 All in the SWSWNW, Sec. 32, Twp 21N, Rge 2E, Cascade County	SESENE, Sec. 31, Twp 21N, Rge 2E, Cascade County	38.40	5.80	7.20





The Applicant proposes to temporarily change both the purpose of use and place of use. The purpose will change temporarily from Irrigation to Lawn & Garden (L&G), with a cumulative 2.88 AC being L&G irrigated under the Department L&G standard of 2.5 AF/AC. The volumes associated with the proposed diverted and consumed use are summarized in **Table 6**.

**Table 6:** Values used to calculate the volumes associated with the proposed use.

Purpose	Proposed Acres	DNRC Standard (AF/AC)	Proposed Diverted Volume (AF)	Proposed Consumptive Volume
Lawn & Garden	2.88	2.50	7.20	5.80

**Table 7:** Comparison of volumes associated with historical and proposed use.

Purpose	Historically Consumed Volume	Proposed Consumptive Volume	Historically Diverted Volume	Proposed Diverted Volume
Irrigation	7.48	NA	9.35	NA
Lawn & Garden	NA	5.80	NA	7.20
Total	7.48	5.80	9.35	7.20

### 3.2 Impacted Surface Water Sources

The Department has considered an area of potential adverse effect on the source of supply. The historical flow rate and historical point of diversion are proposed to remain unchanged. Additionally, water will be left in the source due to a 2.20 AF reduction in diverted volume. Thus, the Department determines there is no area of potential adverse effect and there are no water rights therein to be considered for adverse effect.



## Review

This document has been reviewed by the Department on June 12, 2025.

## References

Department Standard Practice for Determining Historical Use  
Department Standard Practice to Analyze Return Flows



## Surface Water Change Technical Analyses Report - Part B

### Department of Natural Resources and Conservation (DNRC)

#### Water Resource Division

Kim Bolhuis, Groundwater Hydrologist, Water Sciences Bureau

<b>Applicant</b>	Larsen/Hendrickson	<b>Point of Diversion Legal Land Description</b>	NESWSW Section 29, T01N R02E, Gallatin County
<b>Application No.</b>	41K 30170695		

### Overview

This report is Part B of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right change application. 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 §85-2-402, Montana Code Annotated (MCA). For applications in closed basins, this report fulfills the requirements of MCA 85-2-361.

This Surface Water Change Technical Analyses Report – Part B contains the following sections:

Overview .....	1
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2.0 Methodology .....	2
3.0 Adverse Effect – Return Flow Analysis .....	3
3.1. Consumed and Non-Consumed Volume.....	3
3.2 Hydraulically Connected Surface Water(s).....	3
3.3 Location of Return Flows.....	6
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## 1.0 Executive Summary

### Water Right Details

The Applicant requests to temporarily change the purpose and place of use (POU) of Statement of Claim No. 41K 5004-00 from crop irrigation to lawn and garden irrigation. Historically, 9.35 acre-feet (AF) was diverted to irrigate 6.20 acres using handline sprinklers. The proposed temporary change would divert 7.2 AF to irrigate 2.88 acres, total, by sprinkler on four separate lots in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$  corner of Section 32, Township 21 North, Range 2 East in Cascade County. The period of diversion is May 1<sup>st</sup> through October 31<sup>st</sup>. 2.2 AF of historically diverted water will be left instream during the period of diversion.

### DNRC - WSB Technical Findings

Based on information submitted, the WSB quantified the historical non-consumed volume and location of historical return flows. These analyses are in support of the following criteria assessment: adverse effect. A summary of WSB findings described in subsequent sections are listed below.

### TECHNICAL ANALYSES FINDINGS

<b>ADVERSE EFFECT (RETURN FLOWS)</b>	The historical non-consumed volume is 1.9 acre-feet (AF) and the location of historical return flows as identified in <b>Figure 2</b> is to Sun River downstream of the eastern edge of the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ corner of Section 31, Township 21 North, Range 2 East. The proposed non-consumed volume is 1.4 AF and the location of the proposed return flows is to the Sun River downstream of the eastern edge of the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ corner of Section 31, Township 21 North, Range 2 East ( <b>Figure 2</b> ).
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## 2.0 Methodology

DNRC will analyze the change to determine if:

- Return flows will enter back into the source where they have historically returned upstream of or at the location of the next downstream appropriator; or,
- Water is left instream so historically diverted flows are available during the historical period of diversion either below the point of diversion or where return flows historically returned to the source.

If the change in return flows impacts existing water rights, the return flow analysis must include a monthly breakdown of the rate and timing of return flows and evaluate impacts to the identified rights.

Return flows are evaluated by determining the volume of water that infiltrates past the root zone and identifying the likely receiving stream(s). The assumption is made that water applied for irrigation that is not consumed by a crop infiltrates to groundwater, becoming return flow and does not run off. The amount of water not consumed is the difference between the amount of water consumed and the amount of water applied to a field. The receiving stream is determined by proximity and evidence of hydraulic connection to groundwater and generally does not depend on



groundwater flow direction or land slope (Leake, 2011). Historical consumed volumes for irrigation are calculated following the procedures described in DNRC consumptive use rules in ARM 36.12.1902.

### 3.0 Adverse Effect – Return Flow Analysis

#### 3.1. Non-Consumed Volume

The consumed volume for irrigation is based on the net irrigation requirement (NIR) from USDA Natural Resources Conservation Service Irrigation Water Requirements (IWR) at a representative weather station. The NIR is multiplied by a county-wide management factor (from ARM 36.12.1902) to produce an adjusted NIR representative of actual crop yields in Montana. Crop consumption is determined by multiplying the adjusted NIR by the number of acres of irrigation. Crop consumption is then divided by the field efficiency identified from the irrigation method and ARM 36.12.115. Irrecoverable losses (IL) are 5% of the field applied volume for flood irrigation or 10% for sprinkler irrigation. The total consumed volume for irrigation is the crop consumption plus irrecoverable losses. The total non-consumed volume is the field applied volume minus the total consumed volume.

The historical and proposed consumed and non-consumed volumes have been calculated with the inputs shown in **Table 1** and **Table 2** following the methods described above and in ARM 36.12.1902.

**Table 1:** Historical use.

Irrigation Method	Acres	IWR (in) <sup>1</sup>	Mgmt. Factor <sup>2</sup>	Field Efficiency	Crop Consumption (AF)	Applied Field Volume (AF)	IL (AF)	Total Consumed Volume (AF)	Non-Consumed Volume (AF)
Hand-line Sprinkler	6.20	18.1	70%	70%	6.6	9.4	0.9	7.5	1.9

<sup>1</sup> Sun River IWR Weather Station

<sup>2</sup> Cascade County Historical Use Management Factor

**Table 2:** Proposed irrigation.

Irrigation Method	Acres	Applied Field Volume (AF) <sup>1</sup>	Field Efficiency	Crop Consumption (AF)	IL (AF)	Total Consumed Volume (AF)	Non-Consumed Volume (AF)
Sprinkler	2.88	7.2	70%	5.0	0.7	5.8	1.4

<sup>1</sup> Applied Volume was calculated using the DNRC volume standard for Lawn and Garden use of 2.5 AF/acre.

#### 3.2 Hydraulically Connected Surface Water(s)

The receiving stream is determined by proximity and evidence of hydraulic connection to ground water. Mounding beneath irrigated fields propagates in all directions independent of ground water flow rate or direction and generally does not depend on surface topography (Leake, 2011). Return

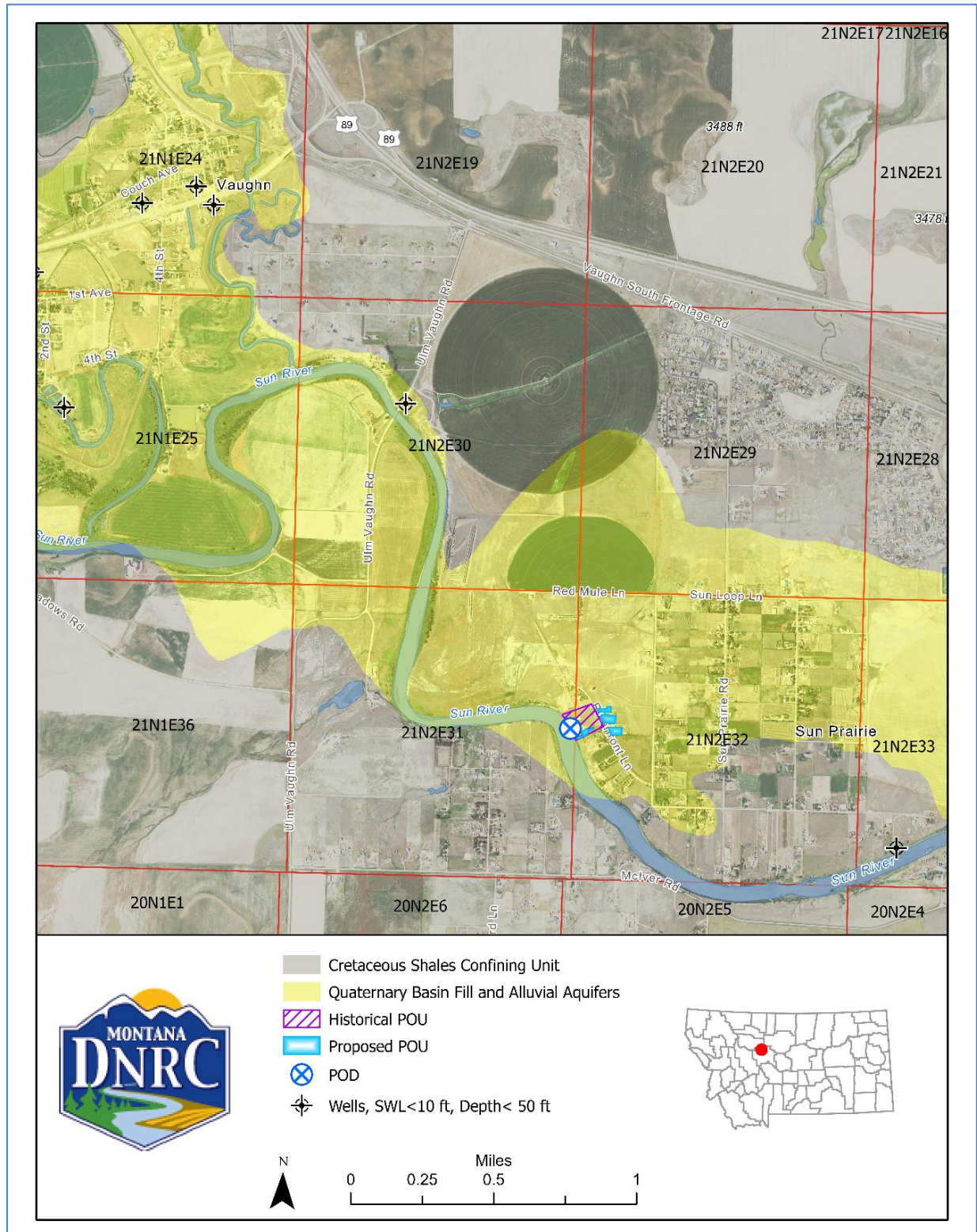


flows may accrete to more than one receiving reach or to a different stream than the source water is diverted from. Hydraulic connection of individual stream reaches to ground water is evaluated by comparing streambed elevations to static ground water elevations measured in wells less than 50 ft deep and within 1,000 ft of surface water or from published water table maps (DNRC, 2019). Surface water within that area is considered hydraulically connected to the unconfined aquifer if static ground water elevations are above or within 10 ft of the elevation of the stream bed (DNRC, 2019).

As shown in **Figure 1**, the historical POU is adjacent to the Sun River that overlies Quaternary alluvial gravels. These alluvial gravels can range up to 270 ft thick in and near the Missouri River Valley but are often around 20 ft thick near smaller rivers and streams (Madison, 2025). The Sun River alluvium near the historical and proposed POUs is bounded to the northeast by Quaternary fine grained sediments and by shales of the Colorado Group to the south (Madison, 2025). Wells were queried from the Montana Bureau of Mines and Geology (MBMG) Groundwater Information Center (GWIC) database to investigate hydraulic connection of nearby surface water to groundwater. Numerous wells in the vicinity of the Sun River with static water levels of 10 ft or less and total depths of 50 ft or less were identified (**Figure 1**).

The historical POU borders the Sun River, with the centroid of the field approximately 300 ft from the river. The centroid of each proposed POU is less than 740 ft from the Sun River. There is no other perennial surface water source near the historical or proposed POUs. As shown in **Figure 1**, DNRC identifies the Sun River as the closest perennial surface water body to the historical and proposed places of use and the receiving stream for return flows.





**Figure 1:** Location of historical and proposed POU. Wells with static water levels less than 10 ft and total depths less than 50 ft are shown for evidence of hydraulic connection to perennial surface water sources.



### 3.3 Location of Return Flows

The location of 1.9 AF of return flows from 6.2 acres of historical crop irrigation is the Sun River downstream of the eastern boundary of the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  corner of Section 31, Township 21 North, Range 2 East, Cascade County (**Figure 2**).

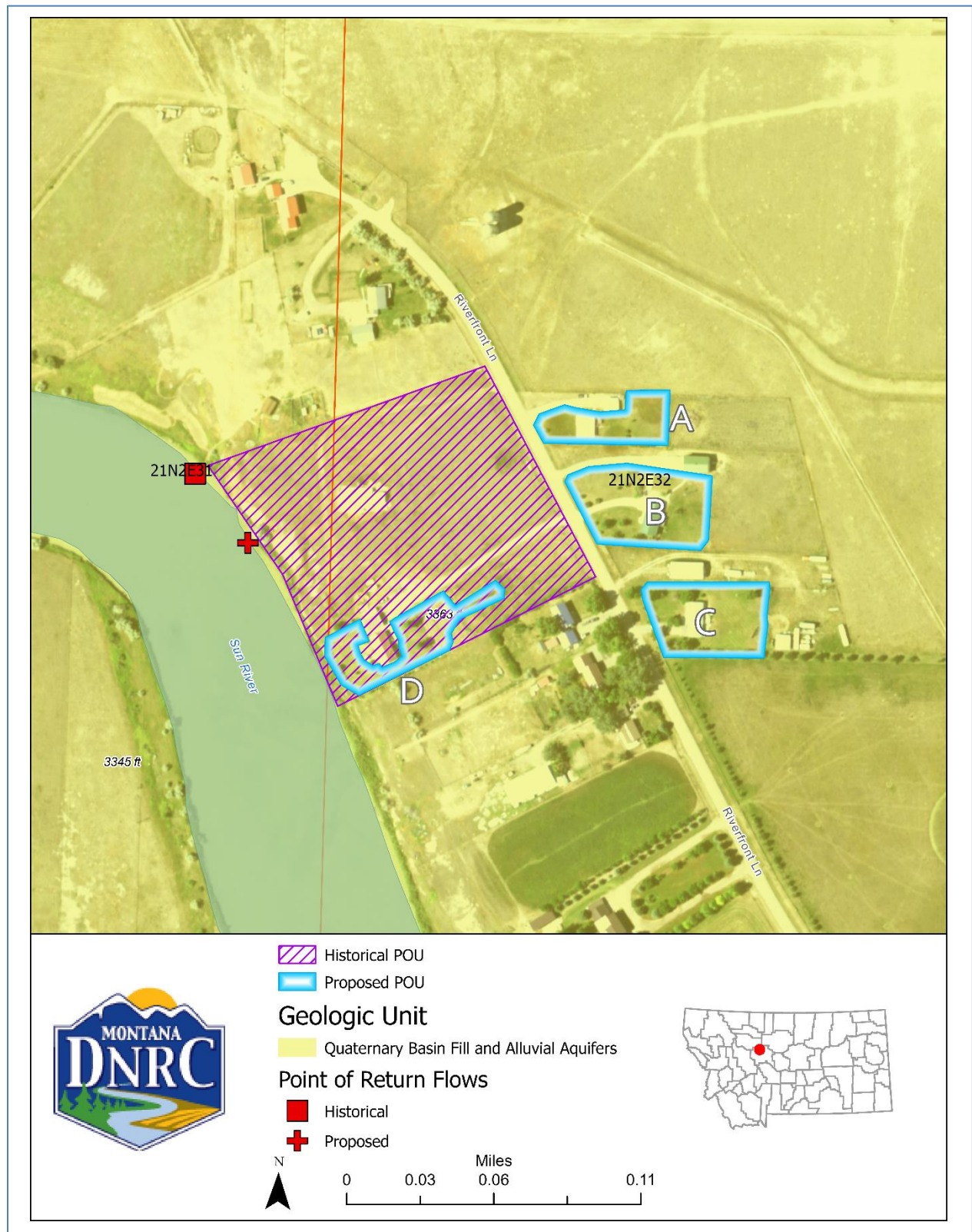
Under the proposed change, 1.4 AF of return flows from 2.88 acres of lawn and garden irrigation would accrue to the Sun River beginning near the eastern boundary of the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$  corner of Section 31, Township 21 North, Range 2 East, Cascade County (**Figure 2**). The amount of consumed and non-consumed water for each POU for the proposed temporary change is shown in **Table 3**.

The Applicant proposed to leave 2.2 AF of historically diverted volume instream at the historical point of diversion. A monthly rate and timing analysis of return flows is necessary when a proposed change would impact existing water rights. This proposed change would result in both return flows entering back into the Sun River upstream of the next downstream appropriator and water left instream so that historically diverted flows would be available during the historical period of diversion at the POD. Therefore, no timing analysis is required for this proposed change.

**Table 3:** Consumed and non-consumed volume for Lawn and Garden irrigation, proportional to the acreage for each POU.

Field ID	Lawn & Garden Acres	Proportion of Total Acreage	Consumed Volume (AF)	Non-Consumed Volume (AF)
A	0.43	0.15	0.86	0.23
B	0.93	0.32	1.82	0.48
C	0.90	0.31	1.77	0.47
D	0.62	0.22	1.25	0.33





**Figure 2:** Location of return flows. Individual POUs are labeled A – D.



## Review

This document has been reviewed on June 2, 2025 in accordance with Category 7 of [DNRC's Water Sciences Bureau Minimum Standards of Review](#), Version 2, February 2024.

## References

DNRC, 2016. Technical Memorandum: Policy Memo – Return Flows. April 1, 2016.

DNRC, 2019. Technical Memorandum: Calculating Return Flow. April 18, 2019.

Groundwater Information Center, 2025. Montana Bureau of Mines and Geology, <http://mbmgwic.mtech.edu/>.

Leake, S.A., 2011. Capture – rates and direction of groundwater flow don't matter! Groundwater, Vol. 49, No. 4, p. 456 – 458.

Madison, James P., 2025, Hydrogeologic framework of Cascade and Teton Counties, Montana: Montana Bureau of Mines and Geology Montana Ground-Water Assessment Atlas 7-02, 20 p., 1 sheet.

Natural Resources Conservation Service (NRCS), 2003. Irrigation Water Requirement (IWR) computer program, <http://www.nrcs.usda.gov/wps/portal/nrcs/detailfull/national/water/manage/?cid=stelprdb1044890>.

## Application Materials

- Application
- Any information submitted with Application including maps

# Application Materials





**APPLICATION TO  
CHANGE A WATER RIGHT**  
§ 85-2-302, MCA  
Form No. 606 (Revised 2/2025)

For Department Use Only

**RECEIVED - DNRC**

**JUL 17 2025**

**FILING FEE**

**\$2500/\$1500** – Without/with filing fee reduction.

**\$400** – (The following types do not qualify for a filing fee reduction)

- Replacement well that exceeds 35 GPM or 10 AF per year
- Replacement municipal well that exceeds 450 GPM
- Replacement reservoir on the same source

**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 606P-B will be credited toward filing fees shown above.

**LEWISTOWN WATER  
RESOURCES**

Application # 30170695 Basin 41K  
Priority Date 7/17/25 Time 2:46 AM/PM  
Rec'd By SMY  
Fee Rec'd \$ 1000.00 Check # 3932  
Deposit Receipt # LWS 2600978  
Payor Robinson, Tyrone R / Mary Ann  
Refund \$ \_\_\_\_\_ Date \_\_\_\_\_  
**LWS 2518/03 \$500.00 3/6/25**

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

Applicant Name Bonnie L. Larsen (220098)  
Mailing Address 230 Riverfront Ln / 215 City Great Falls State MT Zip 59404-6238  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell (406) 217-2824  
Email Address \_\_\_\_\_

Applicant Name Amanda Hendrickson (439015)  
Mailing Address 215 Riverfront Ln City Great Falls State MT Zip 59404-6238  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell (406) 750-7383  
Email Address a\_gasvoda@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

Contact/Representative Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

**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 correspondence 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 Change Preapplication Meeting Form Part A and Part B (Form 606P-A and 606P-B)?

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

2.a. ☐ S Submit the Technical Analyses Addendum (Form 606-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 606P? **If yes,**

2.c.i. Please explain.

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2.c.ii. ☐ S Submit the Technical Analyses Addendum (Form 606-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.

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2.d.ii. ☐ S Submit the Technical Analyses Addendum (Form 606-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 the proposed change involves one or more places of storage, submit a Change Storage Addendum (Form 606-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)).
4. ☐ S ☒ NA If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, submit a Reasonable Use Addendum (Form 606-B).
5. ☐ S ☒ NA If the project involves out-of-state water use, submit an Out-of-State Use Addendum (Form 600/606-OSA).
6. ☐ S ☒ NA If the proposed purposes include marketing or selling water, submit a Water Marketing Purpose Addendum (Form 600/606-WMA). This doesn't include marketing for mitigation/aquifer recharge.
7. ☐ S ☒ NA If the proposed purpose includes instream flow, submit a Change to Instream Flow Addendum (Form 606-IFA).
8. ☐ S ☒ NA If the proposed purposes include mitigation, aquifer recharge, or marketing for mitigation/aquifer recharge, submit a Mitigation Purpose Addendum (Form 606/606-MIT).
9. ☐ S ☒ NA If the project is in designated sage grouse habitat, submit a review letter from the Montana Sage Grouse Habitat Conservation Program.
10. ☐ S ☒ NA If you propose to add a point of diversion or place of use on State of Montana Trust Land, submit documentation of consent from DRNC Trust Lands Management Division. If you propose to add a place of use on Trust Land with all points of diversion on private land, then, at a minimum, that component of the change authorization will be temporary for the duration of the lease term (§ 85-2-441, MCA).
11. ☐ Y ☒ 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.

## APPLICATION DETAILS

12. How many change applications will be needed for this project? Refer to ARM 36.12.1305 for more information. one

13. Fill out the table below for the water rights proposed for change.

Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion
	Flow	GPM	CFS	Flow	GPM	CFS	
41K 5004-00	38.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	38.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	





14. Is the source surface water or groundwater? Surface water

15. What is the source name? Sun River

16. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.

Water Right No.	41K5004-00				
Point of Diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purpose of Use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of Storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17. ☒ S Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary, to clearly convey all required information. See form 606P-A

18. ☒ S Submit a proposed use map created on an aerial photograph or topographic map that shows section corners, township and range, scale bar, north arrow, and the following elements: points of diversion labeled with a unique POD ID ("P" followed by a number), places of use, conveyance structures, places of storage, and place of use for all overlapping water rights. Include all elements that will be on the water rights after the proposed change, regardless of whether the element will be modified by the change. The map should fully depict the water rights, as proposed, after the change. More than one map may be submitted, if necessary, to clearly convey all required information. See form 606P-A

19. ☐ Y ☒ N Does the proposed change involve a change in point of diversion?

IF YES,

19.a. Describe the location for all *new* and *unchanged* points of diversion to the nearest 10 acres. Label POD ID with the same POD ID number assigned for the proposed use map (question 18).

POD ID	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged

- 19.b. ☒ NA Describe the location of all historical PODs you propose to *retire*. Label POD ID with the same POD ID assigned for the historical use map (question 17). If none are proposed for retirement, select "NA" checkbox.

POD ID	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot

- 19.c. What is the means of diversion for all *new* PODs? 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.

NIA

20. ☒ Y ☐ N Does the proposed change involve a change in place of use?

IF YES,

- 20.a. What are the geocodes of the proposed place of use?

see form 606P-A & 606P-B	
215 Riverfront Lane:	02-3137-32-3-02-03-0000

- 20.b. Describe the legal land description of the proposed place of use, and if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.

Acres	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County
Total		see form 606P-B map						



21. ☒ Y ☐ N Does the proposed change involve a change in place of use or purpose?

IF YES,

21.a. ☐ Y ☒ N Do other water rights supplement or overlap the proposed place of use?

IF YES,

21.a.i. How will the water rights be operated to serve the proposed purposes?

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21.a.ii. For each supplemental or overlapping water right, please list the average period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed.

Water Right No.	Avg. Period of Diversion	Avg. Period of Use	Flow Rate			Volume Contributed
	MM/DD-MM/DD	MM/DD-MM/DD	Flow	GPM	CFS	AF
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

22. ☐ Y ☒ N Are you filing on behalf of another entity? If yes, describe.

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23. ☒ Y ☐ N Do you own the entire historical place of use for all water rights proposed for change?

IF QUESTION 23 IS NO,

23.a. ☐ Y ☐ N Was the water historically used for sale, rental, distribution, municipal use, or any other context in which water is being supplied to another and it is clear that the ultimate user would not accept the supply without consenting to the use of water on the user's place of use?

IF QUESTION 23.a IS NO,

23.a.i. ☐ Y ☐ N List the water rights for which you do not own the entire historical place of use.

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23.a.ii. ☐ Y ☐ N Are the water rights listed in question 23.a.i severed from the historical place of use?

IF QUESTION 23.a.ii IS YES,

23.a.ii.1. ☐ Y ☐ N Do you own the entirety of the severed water rights proposed for change? If yes, skip to question 24. If no, answer question 23.a.iii.

IF QUESTION 23.a.ii OR 23.a.ii.1 IS NO,

23.a.iii. ☐ Y ☐ N ☐ NA Are all owners of the historical place of use or, if applicable, owners of the severed water rights, willing to sign the application?



IF QUESTION 23.a.iii IS NO,

- 23.a.iii.1. ☐ S Submit a Form 641 or 642 to split the water rights being changed for which all owners will not sign.

ADVERSE EFFECT

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

We will ~~add~~ the pumps  
turn off

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

Turn off the pump

26. ☐ 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?

26.a. If yes, explain.

27. Describe how the proposed change will or will not affect your ability to make call.

It will have no effect.

28. ☐ Y ☒ N Does a water commissioner distribute water or oversee water distribution on your proposed source, or if groundwater, on nearby surface water sources?

28.a. If yes, list the sources.

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29. When was the last time each water right proposed for change was appropriated and used beneficially?

2024

IF THERE HAS BEEN A PERIOD OF NONUSE,

29.a. Why was the water right not used?

N/A

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29.b. Why will a resumption of use not adversely affect other water users?

N/A

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29.c. ☐ Y ☒ N Is the period of nonuse greater than 10 years for any of the water rights proposed for change? If yes, list which water rights.

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29.d. ☐ Y ☒ N Have new water rights been authorized to use the source during the period of nonuse for any of the water rights proposed for change? If yes, explain.

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30. ☐ Y ☒ N Do you propose to add one or more points of diversion or use new or existing conveyance infrastructure that will be shared with one or more existing water rights?

30.a. If yes, describe how the capacity of the shared points of diversion and/or conveyance infrastructure is sufficient for all water rights and how the proposed project will not adversely affect these water rights.

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31. ☒ NA Answer questions 31.a to 31.b for point of diversion changes. If you do not propose a point of diversion change, mark "NA" instead.

31.a. Are the proposed points of diversion upstream or downstream of the historical points of diversion?

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31.b. ☐ Y ☒ N Are there intervening water users between the historical and proposed points of diversion?

31.b.i. If yes, list the water rights.

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#### 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.

see form 606 P-A & 606 P-B



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.

N/A

See replacement pump invoice received from Applicant on 7/14/25. DNRC then found specs online + added that to the file.

-MS 7/18/25

Work Copy

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.

See form 606P-A and 606P-B

35. ☐ Y ☒ N Does the proposed conveyance require easements?

35.a. If yes, explain.





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.

N/A

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.

See form 606P-A and 606P-B

35. ☐ Y ☒ N Does the proposed conveyance require easements?

35.a. If yes, explain.

36. Describe your plan of operations, including 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 form 606P-A and 606P-B map

37. ☐ Y ☐ N ☒ NA If you propose to add one or more points of diversion, do you own the land where all proposed points of diversion are located? If you do not propose to add one or more points of diversion, mark "NA" instead.

37.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.

38. ☐ Y ☒ N Will your system be designed to discharge water from the project?

38.a. If yes, explain the wastewater disposal method.

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

39. ☐ Y ☒ N Is the means of diversion for any proposed point of diversion a well?

IF YES,

39.a. ☐ Y ☒ N Have all wells been drilled?

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

N/A

39.c. ☐ Y ☐ N ☒ NA For all wells yet to be drilled, will a licensed well driller construct the wells? If no wells are yet to be drilled, mark "NA" instead.

39.d. ☐ S ☒ NA Submit any well logs not yet submitted to the Department, such as for wells drilled after submittal of Form 606P. If all well logs have been submitted to the Department, mark "NA."



## BENEFICIAL USE

40. ☒ Y ☐ N Does the Department have a standard period of diversion, period of use, flow rate, and/or volume for any of the purposes for which water is used? Department standards can be found in the DNRC Water Calculation Guide, ARM 36.12.112, ARM 36.12.115, and ARM 36.12.1902.

40.a. If yes, list the purposes for which the Department has a standard and note whether the water use falls within or outside the standard.

See form 606 P-A and 606 P-B map

40.b. For any of the purposes with no Department standard or with proposed beneficial use that falls outside of Department standards, explain how the use is reasonable for that purpose.

N/A

41. ☐ Y ☒ N Will your proposed project be subject to Montana Department of Environmental Quality (DEQ) requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?

42. ☐ Y ☒ N Are you proposing to use surface water for in-house domestic use?

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

42.a.i. ☐ S If yes, submit the COSA.



## POSSESSORY INTEREST

43. ☐ Y ☒ N Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802 and § 85-2-402(2)(d), MCA? 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, and applications for the purposes of instream flow, mitigation, and marketing for mitigation.

Work Copy

43.a. If yes, explain.

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44. ☒ 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.

44.a. ☐ S If no, explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the proposed place of use.

DNRC emailed Applicants + non-Applicant parties (Robinson + Ostle)  
on 7/18/25, requesting written permissions. - ms 7/18/25

## PROPOSED COMPLETION PERIOD

45. How many years will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 618)? N/A

46. Describe why this amount of time is needed to complete this project.

N/A

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## POSSESSORY INTEREST

43. ☐ Y ☒ N Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802 and § 85-2-402(2)(d), MCA? 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, and applications for the purposes of instream flow, mitigation, and marketing for mitigation.

43.a. If yes, explain.

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44. ☒ 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.

44.a. ☐ S If no, explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the proposed place of use.

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## PROPOSED COMPLETION PERIOD

45. How many years will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 618)? N/A

46. Describe why this amount of time is needed to complete this project.

N/A

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## 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 Donnie L. Larson

Applicant Signature Donnie L. Larson Date: 7-10-25

Printed Name Amanda Hendrickson

Applicant Signature Amanda Hendrickson Date: 7/10/25

Printed Name \_\_\_\_\_

Applicant Signature \_\_\_\_\_ Date: \_\_\_\_\_



## Preapplication Materials

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

# Preapplication Materials

# THE MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

DIRECTOR'S OFFICE: (406) 444-2074  
PO BOX 201601



1539 ELEVENTH AVENUE  
HELENA, MONTANA 59620-1601

GOVERNOR GREG GIANFORTE

DNRC DIRECTOR AMANDA KASTER

May 1, 2025

Bonnie Larsen  
230 Riverfront Ln  
Great Falls, MT  
59404-6230

Subject: Complete Preapplication Form for Change Application No. 41K 30170695

Dear Applicant,

---

The Lewistown Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form and preapplication meeting fee on April 29, 2025, and the Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on May 1, 2025.

As designated on the submitted 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 May 1, 2025.

---



Please let me know if you have any questions.

Best,



Matthew D. Shaw

Water Resource Specialist

Lewistown Regional Office

[matthew.shaw@mt.gov](mailto:matthew.shaw@mt.gov)

(406) 535-1927





# THE MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

DIRECTOR'S OFFICE: (406) 444-2074  
PO BOX 201601



1539 ELEVENTH AVENUE  
HELENA, MONTANA 59620-1601

GOVERNOR GREG GIANFORTE

DNRC DIRECTOR AMANDA KASTER

May 1, 2025

Amanda Hendrickson  
215 Riverfront Ln  
Great Falls, MT  
59404-6230

Subject: Complete Preapplication Form for Change Application No. 41K 30170695

Dear Applicant,

---

The Lewistown Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form and preapplication meeting fee on April 29, 2025, and the Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on May 1, 2025.

As designated on the submitted 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 May 1, 2025.

---



Please let me know if you have any questions.

Best,



Matthew D. Shaw

Water Resource Specialist

Lewistown Regional Office

[matthew.shaw@mt.gov](mailto:matthew.shaw@mt.gov)

(406) 535-1927





**PREAPPLICATION MEETING FORM:**  
**PART A**  
**CHANGE**  
**§ 85-2-302(3)(b)**  
**Form No. 606P-A (Revised 02/2025)**

**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)).

**For Department Use Only**

Application # \_\_\_\_\_ Basin \_\_\_\_\_  
Meeting Date \_\_\_\_\_ Time \_\_\_\_\_  
Variance Request Deadline \_\_\_\_\_  
Completed Form Deadline \_\_\_\_\_

*The Department will fill out Form 606P-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 606P-B), including identified follow-up, any amended responses, and the Follow-up and Amended Responses Affidavit & Certification.*

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

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 (describe) \_\_\_\_\_  
Contact/Representative Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

**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. 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 correspondence and a copy may be sent to the contact person. (ARM 36.12.122)

**Meeting Attendees: Add more as necessary.**

Name	Organization	Position



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## 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.

<u>Questions, Narrative Responses, and Tables</u>							<u>Check-boxes</u>	<u>Follow-Up</u>
1. Do you elect to have DNRC conduct technical analyses?							<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
2. How many change applications will be needed for this project? Please refer to ARM 36.12.1305 for more information. _____								<input type="checkbox"/> F
3. Which water right(s) are proposed for change?							<input type="checkbox"/> A	<input type="checkbox"/> F
Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion	
	Flow	GPM	CFS	Flow	GPM	CFS		
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
4. Is the proposed change on a non-filed water project?							<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, please submit a Non-Filed Water Project Addendum (Form 606/634-NFWPA). The project must meet the requirements of the addendum. The addendum is required before the Preapplication Meeting Form is completed.							<input type="checkbox"/> S	<input type="checkbox"/> F



5. Is the source surface water or groundwater? _____		
6. What is the source name? _____		
7. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.	<input type="checkbox"/> A	<input type="checkbox"/> F

Water Right #						
Point of diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purpose of use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. Submit a historical use map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all historical points of diversion (POD) labeled with a unique POD ID ("H" followed by a number), all historical places of use (POU), all historical conveyance structures, all historical places of storage, and historical place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	<input type="checkbox"/> S	<input type="checkbox"/> F
9. Submit a proposed use 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 ("P" followed by a number), all proposed places of use, all proposed conveyance structures, all proposed places of storage, and proposed place of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	<input type="checkbox"/> S	<input type="checkbox"/> F
10. Does the change involve a change in point of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, describe the location for all <i>new</i> and <i>unchanged</i> points of diversion to the nearest 10 acres. Label POD ID with the POD ID assigned for the proposed use map (question 9).	<input type="checkbox"/> A	<input type="checkbox"/> F

POD ID	1/4	1/4	1/4	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged



11. Describe the location of all historical PODs you propose to <i>retire</i> . Label POD ID with the POD ID assigned for the historical use map (question 8). If none are proposed for retirement, write "N/A" here: _____	<input type="checkbox"/> A	<input type="checkbox"/> F
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POD ID	¼	¼	¼	Sec.	Twp.	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot

12. What is the means of diversion for all <i>new</i> PODs? 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.  _____ _____		<input type="checkbox"/> F
--	--	----------------------------

13. Does the change involve a change in place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. What are the geocodes of the proposed place of use?	<input type="checkbox"/> A	<input type="checkbox"/> F


ii. Describe the legal land description of the proposed place of use and, if the water rights being changed will have an irrigation or lawn and garden purpose, list the number of irrigated acres.	<input type="checkbox"/> A	<input type="checkbox"/> F
---	----------------------------	----------------------------

Acres	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County
<b>Total</b>								





iii. Do other water rights supplement or overlap the historical and/or proposed place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes,		
a. How were the water rights operated to serve the historical purposes and how will they be operated to serve the proposed purposes?  _____  _____  _____	<input type="checkbox"/> A	<input type="checkbox"/> F
b. For each supplemental or overlapping water right, please list whether they contribute water for historical use, proposed use, or both; the average period of contribution (MM/DD-MM/DD); flow rate contributed (GPM or CFS); and, if known, the volume of water contributed (AF) contributed (otherwise write "unknown").	<input type="checkbox"/> A	<input type="checkbox"/> F

Water Right No.	Contributions to Use			Average Period of Contribution	Flow Rate Contributed			Volume Contributed
	<i>Hist.</i>	<i>Prop.</i>	<i>Both</i>	<i>MM/DD-MM/DD</i>	<i>Flow</i>	<i>GPM</i>	<i>CFS</i>	<i>AF</i>
						<input type="checkbox"/>	<input type="checkbox"/>	
						<input type="checkbox"/>	<input type="checkbox"/>	
						<input type="checkbox"/>	<input type="checkbox"/>	

14. Does the proposed change include a change in purpose of use? If yes, answer questions 101 to 108 for change in purpose of use and question 13.a.iii for supplemental or overlapping water rights.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
15. Are conveyance ditches used for historical or proposed uses? If yes, answer ditch-specific questions 109 to 115.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
16. Do you propose to add or modify 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 mandatory questions 116 to 123. Additionally, you may choose to answer non-mandatory questions 175 to 179. A Change Storage Addendum (Form 606-SA) will be required at application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
17. Is the proposed use temporary? If yes, answer questions 94 to 100 for temporary changes.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
18. Are you filing on behalf of another entity? If yes, describe.  _____  _____	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



19. Do you own the entire historical place of use for all water rights proposed for change?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, was the water historically used for sale, rental, distribution, municipal use, or any other context in which water is being supplied to another and it is clear that the ultimate user would not accept the supply without consenting to the use of water on the user's place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no,		
1. List the water rights for which you do not own the entire historical place of use. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. Are the water rights listed in question 19.a.i.1 severed from the historical POU?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, do you own the entirety of the severed water rights proposed for change?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, skip to question 20. If no, answer question 19.a.i.3.		
b. If no, answer question 19.a.i.3.		
3. Are all owners of the historical place of use or, if applicable, owners of the severed water rights, willing to sign the application?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no,		
i. A Form 641 or 642 to split the water rights being changed must be received and processed by the Department prior to application submittal.		
ii. Describe how the water rights will be split, and which part of the split water rights will be proposed for change. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
20. Are you proposing to add a point of diversion or place of use on State of Montana Trust Land?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. Documentation of consent from the DNRC Trust Lands Management Division will be required at application submittal.		
ii. Do you propose to add a place of use on Trust Land with all points of diversion on private land? If yes, the change authorization will be temporary for the duration of the lease term (§85-2-441, MCA); answer temporary change project-specific questions 94 to 100.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



21. Will your system be designed to discharge water from the project?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> 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. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
22. Is the application to change the purpose of use or place of use of an appropriation of 4,000 or more acre-feet (AF) of water a year and 5.5 or more cubic feet per second (CFS)? If yes, you must submit a Reasonable Use Addendum (Form 606-B) with the application. The reasonable use criteria are found in §85-2-402(4-5), MCA.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
23. Will you be transporting water for use outside of Montana? If yes, you will need to 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.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
24. 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.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
25. Does the application include a mitigation, aquifer recharge, or marketing for mitigation/aquifer recharge purpose? If yes, answer mandatory questions 124 to 129. Additionally, you may choose to answer non-mandatory questions 185 to 190. A Mitigation Addendum (Form 600/606-MIT) will be required with application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
26. Does the application include the water marketing purpose? This does not include marketing for mitigation/aquifer recharge. If yes, answer the following question. Additionally, you may choose to answer non-mandatory questions 191 to 195. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. For what purposes will the marketed water be used? _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
27. Does the proposed purpose include instream flow? If yes, answer mandatory questions for instream flow changes 130 to 136. Additionally, you may choose to answer non-mandatory questions 180 to 184. A Change to Instream Flow Addendum (Form 606-IFA) will be required with application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
28. Will the proposed use include water made available through creation of a "water saving method" (i.e., salvage water) as defined in ARM 36.12.101? If yes, answer questions 137 to 141 for Salvage Water.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



## Historical Use

The following questions are mandatory and must be filled out for both Surface Water and Groundwater Applications before the Preapplication Meeting Form is determined to be complete.

<b><u>Questions, Narrative Responses, and Tables</u></b>				<b><u>Check-boxes</u></b>	<b><u>Follow-Up</u></b>
29. What is the water right type for each water right proposed for change? Answer question 30 for each Statement of Claim, question 31 for each Provisional Permit, and question 32 for water right that is not a Statement of Claim or Provisional Permit.  _____ _____				<input type="checkbox"/> A	<input type="checkbox"/> F
30. In the table below, write the water right number for each Statement of Claim proposed for change in the "Statement of Claim Number" column. If there is one or more previous change authorizations, write the application numbers for the change authorizations in the "Previous Change Authorization Number" column. If there are no previous change authorizations, write "none" in the "Previous Change Authorization Number" column and "N/A" in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the "Project Completion Notice Date" column and if no Project Completion Notice has been submitted, write "none" instead. In the "Previous Historical Use Analysis Quality" column, describe the quality of the previous historical use analysis.				<input type="checkbox"/> A	<input type="checkbox"/> F
<b>Statement of Claim Number</b>	<b>Previous Change Authorization Number</b>	<b>Project Completion Notice Date</b>	<b>Previous Historical Use Analysis Quality</b>		



<p>31. In the table below, write the water right number for each Provisional Permit proposed for change in the “Provisional Permit Number” column. In the “Project Completion Notice Date” column, write the date of the Project Completion Notice and if no Project Completion Notice has been submitted, write “none” instead. Write the application number for each previous change authorization in the “Previous Change Authorization Number” column. If there are no previous change authorizations, write “none” in the “Previous Change Authorization Number” column and “N/A” in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the “Previous Change Project Completion Notice” column and if no Project Completion Notice has been submitted, write “none” instead. In the “Previous Change Historical Use Analysis Quality” column, describe the quality of the previous historical use analysis.</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
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Provisional Permit Number	Project Completion Notice Date	Previous Change Authorization Number	Previous Change Project Completion Notice Date	Previous Historical Use Analysis Quality

<p>32. In the table below, write the water right number for each water right proposed for change that is not a Statement of Claim or Provisional Permit, the type of water right, and the completion date. If a Groundwater Certificate, the completion date will be the date of filing. If an exempt or non-filed water right, the completion date will be July 1, 1973. If there are one or more previous change authorizations, write the application number for each change authorization in the “Previous Change Authorization Number” column. If there are no previous change authorizations, write “none” in the “Previous Change Authorization Number” column and “N/A” in all the remaining columns. Write the date of the Project Completion Notice for each previous change authorization in the “Previous Change Project Completion Notice Date” column and if the previous change authorization does not have a Project Completion Notice, write “none” instead. In the “Previous Historical Use Analysis Quality” column, describe the quality of the previous historical use analysis.</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
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Water Right Number	Water Right Type	Completion Date	Previous Change Authorization Number	Previous Change Project Completion Notice Date	Previous Historical Use Analysis Quality





33. Are there previous Montana Water Court approved stipulations, Water Master reports, or prior Montana Water Court or Department decisions related to the water right(s) being changed?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, explain.      	<input type="checkbox"/> A	<input type="checkbox"/> F
34. Fill in the table below based on ARM 36.12.1902(1) and the information provided in questions 29 to 33. In column "Water Right Number", list all water rights proposed for change. Select one of the three historical use analysis options and fill in the required information associated with that option. Select "Full Historical Use Analysis N/A" only if an unperfected Provisional Permit will be used to serve as historical use in lieu of analysis. If the "Existing Historical Use Analysis" or "Full Historical Use Analysis N/A" option is selected, skip to question 57 because this section is complete.	<input type="checkbox"/> A	<input type="checkbox"/> F

Water Right No. Proposed for Change	Historical Use Analysis Options
	<input type="checkbox"/> New Historical Use Analysis. Date for which historical use will be analyzed: _____
	<input type="checkbox"/> Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	<input type="checkbox"/> Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____



	<input type="checkbox"/> New Historical Use Analysis. Date for which historical use will be analyzed: _____
	<input type="checkbox"/> Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	<input type="checkbox"/> Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____
	<input type="checkbox"/> New Historical Use Analysis. Date for which historical use will be analyzed: _____
	<input type="checkbox"/> Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	<input type="checkbox"/> Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____

35. Do you have knowledge of historical use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. Is this firsthand knowledge?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
ii. Who has this knowledge and what was their role? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
b. If no, where will the historical use data be derived? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



Fill out the remaining *Historical Use* questions (questions 37 to 56) **one time for each** water right proposed for change. Use the “Additional Water Right Historical Use (606P)” sheet for each additional water right. You may answer **one time for all** water rights proposed for change that have the same purposes, place of use, supplemental water rights, points of diversion, period of use, conveyance, diverted volume parameters, and consumptive volume parameters.

36. What is the water right number for which questions 37 to 56 will be answered? _____		<input type="checkbox"/> F
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### **Historical Use: Place of Use**

37. The historical use map submitted for question 8 must clearly identify the entire place of use for each overlapping water right that intersects the historical place of use. Does your historical use map meet this requirement?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
38. Are you proposing to change all water rights associated with the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, identify the water rights associated with the historical place of use that are not included in this application. Provide the priority date for each water right and explain why all overlapping water rights are not included in the application. Include water received via contract from a company, district, or water users' association.	<input type="checkbox"/> A	<input type="checkbox"/> F

Water Right No.	Priority Date	Reason Not Included in Change



39. Answer the section of this question relevant to the historical purpose. If there is more than one purpose, then answer all relevant parts of this question.		
a. All purposes		
i. Does the legal land description from the abstract encompass the actual location of the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If no, explain the discrepancy and submit historical aerial photographs and/or other data sources to corroborate the location of these historical places of use, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim.  _____ _____	<input type="checkbox"/> S	<input type="checkbox"/> F
b. Irrigation		
i. Is the water right being changed a Statement of Claim?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes, does the Water Resources Survey corroborate the acres irrigated listed on the abstract?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, submit evidence that can corroborate the historical place of use, including the number of irrigated acres. This includes, but is not limited to, aerial photographs, irrigation journals, or logs.	<input type="checkbox"/> S	<input type="checkbox"/> F
2. If no, submit one or more aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	<input type="checkbox"/> S	<input type="checkbox"/> F
c. Lawn and garden		
i. Submit aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	<input type="checkbox"/> S	<input type="checkbox"/> F
d. Stock		
i. Submit aerial photographs, grazing records, or other records to corroborate the historical place of use.	<input type="checkbox"/> S	<input type="checkbox"/> F
ii. Did the stock drink direct from source or direct from ditch?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If no, submit data sources that make clear the location of the stock watering infrastructure.	<input type="checkbox"/> S	<input type="checkbox"/> F
e. Multiple domestic, domestic, municipal, mining, commercial, and other purposes		
i. Submit aerial photographs, deeds, other recorded documents or records, affidavits, or other published documents, such as magazine articles, to corroborate the historical place of use.	<input type="checkbox"/> S	<input type="checkbox"/> F



## Historical Use: Point of Diversion

Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical flow rate with the Historical Use Addendum (Form 606-HUA) may be eligible to skip question 42; see the Form 606-HUA for more information.

40. For all historical points of diversion, identify the means, location (¼ ¼ ¼ section), and if they are proposed for change. Label using the same POD ID letter as for the Historical Use Map (question 8).							<input type="checkbox"/> A	<input type="checkbox"/> F
POD ID	Means	Location (¼ ¼ ¼ Section)	Proposed for Change?					
			<input type="checkbox"/> Y <input type="checkbox"/> N					
			<input type="checkbox"/> Y <input type="checkbox"/> N					
			<input type="checkbox"/> Y <input type="checkbox"/> N					
			<input type="checkbox"/> Y <input type="checkbox"/> N					

41. Do the legal land descriptions from the abstract encompass the actual locations of all historical points of diversion?							<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, explain the discrepancy and submit historical aerial photographs and/or other data sources to corroborate the location of these historical points of diversion, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim. <hr/> <hr/>							<input type="checkbox"/> S	<input type="checkbox"/> F

42. Answer questions below related to the diversion means for each of the historical points of diversion.								
a. Headgate								
i. For each headgate, provide dimensions in feet (FT), slope of the channel at the headgate (%), material of the headgate, estimated historical capacity in gallons per minute (GPM) or cubic feet per second (CFS) and the method used to estimate historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).							<input type="checkbox"/> A	<input type="checkbox"/> F

POD ID	Dimensions	Slope	Material	Estimated Capacity			Method
	FT	%		Cap.	GPM	CFS	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	



b. Pump, dike, dam, or other surface water point of diversion					
i. For each pump, dike, dam, or other surface water point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).				<input type="checkbox"/> A	<input type="checkbox"/> F
POD ID	Estimated Capacity			Method	
	Cap.	GPM	CFS		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		

c. Well, pit, or other groundwater point of diversion					
i. For each well, pit, or other groundwater point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map (question 8).				<input type="checkbox"/> A	<input type="checkbox"/> F
POD ID	Estimated Capacity			Method	
	Cap.	GPM	CFS		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>		





43. Do other water rights share any of the points of diversion?					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, list the water rights, their flow rates (GPM or CFS), and the nature of the relationship. Label using the same POD ID letter as for the Historical Use Map (question 8).					<input type="checkbox"/> A	<input type="checkbox"/> F
POD ID	Water Right No.	Flow Rate			Relationship	
		Flow	GPM	CFS		
			<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		
			<input type="checkbox"/>	<input type="checkbox"/>		

### Historical Use: Period of Diversion

(Continue to answer questions for water right(s) identified in question 36.)

44. Are the period of diversion and the period of use the same?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no,			
i. Why are they different?		<input type="checkbox"/> A	<input type="checkbox"/> F
_____			
_____			
ii. Is there a place of storage?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
45. When was water diverted for the purposes of the water rights being changed?		<input type="checkbox"/> A	<input type="checkbox"/> F
Start Date (Month (MM)/Day (DD))		End Date (MM/DD)	
_____		_____	



46. Does the Department have a standard, found in ARM 36.12.112, for the period of diversion for all purposes for which water is used?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, does the period of diversion for all purposes fall within Department standards?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. If no, or if any period of diversion falls outside Department standards, explain how the period of diversion is reasonable for the purpose.  _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

### **Historical Use: Historical Diverted Volume**

*Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical diverted volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip question parts of question 47; see the Form 606-HUA for more information.*

47. Answer all relevant sections of this question based on whether the historical purpose was irrigation, non-irrigation, or both.		
a. Irrigation		
i. Do you want ARM 36.12.1902(10) to be used to calculate historical diverted volume?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If no, submit a Historical Water Use Addendum (Form 606-HUA). Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	<input type="checkbox"/> S	<input type="checkbox"/> F
ii. What were the crop(s) grown? _____		<input type="checkbox"/> F
1. For hay, how many cuttings were there per season and how many days did cuttings last? Did irrigation cease throughout the place of use for cuttings? For other crops, explain whether irrigation regularly ceased within the irrigation season. For all crops, explain whether diversions ceased during times irrigation did not occur.  _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



b. Non-irrigation			
i. Explain your historical diversion schedule, with sufficient detail to estimate the volume of water historically diverted. This may include, but is not limited to, days per year water was historically diverted or the number of diversions per year and the duration of each diversion. <hr/> <hr/> <hr/> <hr/>		<input type="checkbox"/> A	<input type="checkbox"/> F
ii. Explain water diverted but not consumed by the non-irrigation purpose(s). This includes, but is not limited to, wastewater discharge and conveyance loss. Ditch-Specific Questions (questions 110 to 111) will gather information necessary for estimating losses from conveyance ditches. <hr/> <hr/> <hr/> <hr/> <hr/>		<input type="checkbox"/> A	<input type="checkbox"/> F
iii. Did historical diversions serve more than one non-irrigation purpose?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes, how much of the diversions served each non-irrigation purpose and how did you determine this? <hr/> <hr/> <hr/> <hr/>		<input type="checkbox"/> A	<input type="checkbox"/> F
48. Did diversions ever regularly cease within the period of use due to insufficient water in source or calls based on priority date?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, please explain. <hr/> <hr/> <hr/>		<input type="checkbox"/> A	<input type="checkbox"/> F

## Historical Use: Historical Consumed Volume

Continue to answer questions for water right(s) identified in question 36. Applications corroborating historical consumptive volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip parts of question 50; see the Form 606-HUA for more information.

49. What are the historical purposes? Mark each purpose and answer the applicable questions below.		
<input type="checkbox"/> Irrigation. Answer question 50.		
<input type="checkbox"/> Lawn and garden. Answer question 51.		
<input type="checkbox"/> Stock. Answer question 52.		
<input type="checkbox"/> Domestic and multiple domestic. Answer question 53.		
<input type="checkbox"/> Municipal. Answer question 54.		
<input type="checkbox"/> Other. Answer question 55.		

50. Irrigation		
a. Will you use Department standards for historical consumptive use as defined in ARM 36.12.1902?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no,		
1. What method will you use to determine historical consumptive use? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. Submit a Historical Water Use Addendum (Form 606-HUA) to the Department. Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	<input type="checkbox"/> S	<input type="checkbox"/> F
ii. If yes,		
1. What is the historical irrigation method type and subtype? Irrigation method types include flood and sprinkler. Flood irrigation subtypes include level border, graded border, furrow, contour ditch, or wild flood. Sprinkler subtypes include wheel line and center pivot. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. What was the slope (%) of the historical place of use? _____		<input type="checkbox"/> F



3. Are there any factors beyond irrigation method type/subtype and place of use slope that may influence percent efficiency of irrigation?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, submit evidence to support the modified percent efficiency of irrigation in the Historical Water Use Addendum (Form 606-HUA). These factors may include infrastructure age, soil characteristics, or field improvements. Form 606-HUA must be submitted to the Department before the Preapplication Meeting Form is completed.	<input type="checkbox"/> S	<input type="checkbox"/> F
4. Based on answers to the above questions, what is the percent efficiency of irrigation? _____		<input type="checkbox"/> F
5. What is the County Management Factor? _____		<input type="checkbox"/> F
6. What is evapotranspiration (ET) based on the irrigation method and county? _____		<input type="checkbox"/> F
7. What percent of applied water are irrecoverable losses per ARM 36.12.1902(17)? _____		<input type="checkbox"/> F



51. Lawn and garden		
a. Will you use a Department standard for historical consumptive use volume for lawn and garden? Department standards include 2.5 acre-feet per acre, or a calculated volume based on Irrigation Water Requirements for turf grass.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, which standard? _____		<input type="checkbox"/> F
ii. If no, please provide an estimate of historical water use based on expert analysis and methods used to determine this estimate. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

52. Stock		
a. Which volume standard for animal units applies to historical use and why? The standards are either 15 gallons per animal unit per day for new appropriations or 30 gallons per animal unit per day for claims. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
b. How many animal units were historically served? _____		<input type="checkbox"/> F
c. Did these animal units rely entirely on the water right(s) proposed for change for their full water demand?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no, explain. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F





53. Domestic and multiple domestic		
a. How many households were served? _____		<input type="checkbox"/> F
b. Will the Department standard of 1 acre-foot per household be used? The same standard shall be applied to historical and proposed uses.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no, what standard will be used? _____		<input type="checkbox"/> F
c. Did the historical use include wastewater disposal and treatment?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, which of the following best describes the wastewater disposal and treatment system? Individual drain fields, central treatment facility with minimal consumption, or evaporation basin or land application? _____	<input type="checkbox"/> A	<input type="checkbox"/> F

54. Municipal		
a. What is the volume of water (AF) historically consumed for municipal purposes? _____		<input type="checkbox"/> F
b. Submit evidence to support historical municipal use. The data sources may include records that tie water use to the U.S Census, estimates of historical system capacity and estimates of leakage.	<input type="checkbox"/> S	<input type="checkbox"/> F

55. Other		
a. Specify the other purposes. _____		<input type="checkbox"/> F
b. What is the volume of water (AF) historically consumed for other purposes? _____		<input type="checkbox"/> F
c. Submit evidence to support the volume of water historically consumed.	<input type="checkbox"/> S	<input type="checkbox"/> F

## Historical Use: Historical Places of Storage

(Continue to answer questions for water right(s) identified in question 36.)

56. Did the historical use include 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)).					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, for each historical place of storage please provide the surface area in acres (AC), capacity (AF), annual net evaporation (FT/YR), and number of times per year the place of storage was filled.					<input type="checkbox"/> A	<input type="checkbox"/> F
ID	Surface Area (AC)	Capacity (AF)	Annual Net Evaporation (FT/YR)	# of Annual Fillings		

## Surface Water

☐ **Applicable**, move on to question 57. ☐ **Not Applicable**, skip to question 66.

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

## Return Flow Analysis

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
57. Do the purposes of the water rights proposed for change include irrigation?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, does the proposed change include a change in place of use <i>and/or</i> a change in purpose? If you propose to retire acres in the historical place of use and/or add new acres outside the historical place of use, this constitutes a change in place of use.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, a return flow analysis is required. Move on to answer question 58.		
ii. If no, this section is complete, and you may skip to question 94.		
58. Does the proposed change include a change in purpose?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, consumptive use information is collected in the Change in Purpose section (questions 101 to 108), skip to question 59.		
b. If no, go to question 59.		
59. Does the proposed change include a change in place of use? If yes, move on to question 60. If no, skip to question 63.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



60. Submit a map showing the new, unchanged historical, and retired historical places of use. Create map on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, and north arrow. If you have shapefiles associated with this map, in addition to submitting an image of the map, please submit electronic copies of the shapefiles to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F
61. How many acres, if any, will be retired from the historical place of use? _____		<input type="checkbox"/> F
62. Are irrigated acres proposed that are outside the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. How many acres? _____		<input type="checkbox"/> F
ii. What is the proposed irrigation method type (e.g., flood or sprinkler) and subtype (e.g., level border, graded border, furrow, contour ditch, wild flood, center pivot, or wheel line) for the new acres? _____		<input type="checkbox"/> F
iii. What is the slope (%) of the new place of use? _____		<input type="checkbox"/> F
iv. Based on 62.a.ii to 62.a.iii, what is the percent efficiency of irrigation for the new acres? _____		<input type="checkbox"/> F
v. What is the County Management Factor for the new acres? _____		<input type="checkbox"/> F
vi. What is the ET based on the irrigation method and county for the new acres? _____		<input type="checkbox"/> F
vii. What percent of applied water are irrecoverable losses for new acres? _____		<input type="checkbox"/> F
63. Do you have information for the Department to consider about the source and location where return flows historically accrued?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, submit this information to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F

### Extended Return Flow Analysis

<p>64. Based on the preliminary data provided by the Department at this preapplication meeting, to what surface water sources do return flows accrue before and after the proposed change? <i>*Return flow 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 return flow data changes during technical analyses, then the analysis of impacts to identified surface water rights 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).</i></p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>65. If an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 149 to 154 to provide information required for this extended analysis?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, go to question 149. This information will be used if an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.</p>		
<p>b. If no, did you elect in question 1 for the Department to conduct technical analyses?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>i. If yes, do you elect for the Department to use publicly available water quantity data for the extended return flow analysis? If the extended return flow analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended analysis. You will still have to prove a lack of adverse effect from the proposed change.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>ii. If no, you may still include the extended return flow analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.</p>		



## GROUNDWATER

☐ **Applicable**, move on to question 66. ☐ **Not Applicable**, skip to question 94.

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

### Groundwater Analysis for Changes

<u>Questions, Narrative Responses, and Tables</u>					<u>Check-boxes</u>	<u>Follow-Up</u>
66. Does the proposed change include a change in point of diversion?					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, this section is complete; skip to question 77.						
b. If yes, a groundwater analysis for changes is required; answer questions specific to the groundwater diversion type.						
i. What is the groundwater diversion type? _____						<input type="checkbox"/> F
<b>Well/Pumping Pit</b>	Answer questions 67 to 72	<b>Developed Spring</b>	Answer question 73	<b>Pond</b>	Answer questions 74 to 76	

#### *Groundwater Analysis: Well/Pumping Pit*

☐ Applicable ☐ Not Applicable

67. 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.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, explain. The Department will let you know if the request is reasonable and identify additional data needs. _____ _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



<p>68. Submit Aquifer Test Data Form (Form 633) for each <i>new</i> well/pumping pit that will be constructed prior to technical analyses or <i>existing</i> well/pumping pit that is added by the change. If an aquifer test was already conducted for an <i>existing</i> well/pumping pit, and you would like to use that instead of conducting a new aquifer test, describe this in question 67.a.</p> <p>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 633 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>69. 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 633 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>70. 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.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, submit Form 653, Form 600/606-ATA, and Form 633 together on or before the Variance Request Deadline.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>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. 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)).</p>		
<p>71. Have all the wells/pumping pits been constructed?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If no,</p>		
<p>i. Submit a list of the POD IDs for all wells/pumping pits and mark whether they have or have not been constructed.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>ii. When will the proposed wells/pumping pits be constructed?</p> <p>_____</p>		<input type="checkbox"/> F



iii. Is the requested volume for each proposed well/pumping pit known?							<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with POD ID. _____ _____							<input type="checkbox"/> A	<input type="checkbox"/> F
2. If no, what is the total requested volume (AF) and the number of proposed PODs? _____								<input type="checkbox"/> F
72. What is the flow rate (GPM or CFS), volume (AF), and period of diversion (MM/DD-MM/DD) required at each new well/pumping pit ("new") or existing well/pumping pit that is added by the change ("existing")? If the well/pumping pit is not yet constructed, use the estimated volume based on question 71.a.iii.2. What is the well/pumping pit depth (FT), if available, or estimated well/pumping pit depth (FT)? Label using the same POD ID number as the Proposed Use Map (question 9) and, if available, GWIC ID. List whether the POD is <i>new</i> or an <i>existing</i> well added by the change.							<input type="checkbox"/> A	<input type="checkbox"/> F

POD ID	GWIC ID (if available)	Flow Rate			Volume AF	Period of Diversion MM/DD-MM/DD	Depth FT	Measured or Estimated	New or Existing
		Flow	GPM	CFS					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					

### Groundwater Analysis: Developed Spring

☐ Applicable ☐ Not Applicable

73. Have you measured each <i>new</i> developed spring or <i>existing</i> developed spring that will be added by the change?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, submit the measurements to the Department and answer the following questions:		<input type="checkbox"/> S	<input type="checkbox"/> F
i. Do you have flow rate (GPM or CFS) and volume measurements?		<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
ii. With what method were measurements collected? _____ _____		<input type="checkbox"/> A	<input type="checkbox"/> F



iii. What is the interval of measurements? _____		<input type="checkbox"/> F
iv. Is the interval of measurements sufficient to comply with the Department standard of monthly flow measurements taken at regular intervals or at department-approved intervals during the proposed period of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. If no, or if measurements do not comply with the Department standard, answer the following questions. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the Department standard.		
i. When do you plan to measure? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
ii. With what method and at what interval will measurements be collected? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

### Groundwater Analysis: Pond

☐ Applicable ☐ Not Applicable

74. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	<input type="checkbox"/> S	<input type="checkbox"/> F
75. Submit bathymetry data, survey, or engineering plans for each <i>new</i> pond added or <i>existing</i> pond added or modified by the proposed change. Label using the same POD ID number as the Proposed Use Map (question 9). List whether the pond is <i>new</i> or an <i>existing</i> pond.	<input type="checkbox"/> S	<input type="checkbox"/> F
76. Are any of the <i>new</i> ponds, or <i>existing</i> ponds added or modified by the proposed change the pond, fed or drained by surface water in addition to groundwater?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. Explain. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	<input type="checkbox"/> S	<input type="checkbox"/> F



## Surface Water Depletion Analysis for Changes

77. Does the proposed change include any of the following scenarios that necessitate a surface water depletion analysis pursuant to ARM 36.12.1303(5)(c)?					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<ul style="list-style-type: none"> <li>• Change in point of diversion</li> <li>• Change in place of use, purpose of use, or place of storage that result in a change in consumptive use or pumping schedule.</li> </ul>						
a. If no, this section is complete; skip to question 85.						
b. If yes, a surface water depletion analysis is required; answer questions specific to the groundwater diversion type.						
i. What is the groundwater diversion type? _____						<input type="checkbox"/> F
<b>Well/Pumping Pit</b>	Answer questions 78 to 79	<b>Developed Spring</b>	Answer question 80	<b>Pond</b>	Answer questions 81 to 82	

### *Surface Water Depletion Analysis: Well/Pumping Pit*

☐ Applicable ☐ Not Applicable

78. Provide the following information for each well/pumping pit on the current version of the water rights proposed for change that will either remain on the water rights after the change (" <i>unchanged</i> ") or will be retired (" <i>retired</i> "): flow rate (GPM or CFS), volume (AF), period of diversion required (MM/DD-MM/DD), well/pumping pit depth (FT) (if available, otherwise or estimated well/pumping pit depth (FT)), and whether it is <i>unchanged</i> or <i>retired</i> . Please use the same POD ID as the Historical Use Map (question 8) and, if available, provide the GWIC ID number.								<input type="checkbox"/> A	<input type="checkbox"/> F
POD ID	GWIC ID (if available)	Flow Rate			Volume AF	Period of Diversion MM/DD-MM/DD	Depth FT	Measured or Estimated	Unchanged or Retired
		Flow Rate	GPM	CFS					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					
			<input type="checkbox"/>	<input type="checkbox"/>					



79. Provide the pumping schedule for each well/pumping pit ( <i>new, existing, unchanged, or retired</i> ) for both <i>before</i> and <i>after</i> the proposed change. Use the same POD ID as the project maps. For <i>new</i> and <i>existing</i> wells/pumping pits, use the Proposed Use Map (question 9). For <i>unchanged</i> and <i>retired</i> wells/pumping pits use the Historical Use Map (question 8). Attach any additional pumping schedules using “ <i>Additional Pumping Schedule (606P)</i> ” sheet. For <i>retired</i> wells/pumping pits, mark “N/A” checkbox for after the change and for <i>new</i> wells/pumping pits, mark “N/A” checkbox for before the change. Mark the checkbox “Diverted volume/# of Days” if it is a year-round use and the pump schedule is an allocation of diverted volume by the number of days in the month. Mark the checkbox “80% dry year IWR” if it is an irrigation/lawn and garden use and the pump schedule is the 80% dry year net irrigation requirement (IWR, NRCS 2003).	<input type="checkbox"/> A	<input type="checkbox"/> F
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<b>(Before) POD ID</b>				<b>(After) POD ID</b>			
<input type="checkbox"/> Diverted volume/# of Days <input type="checkbox"/> 80% dry year IWR <input type="checkbox"/> N/A				<input type="checkbox"/> Diverted volume/# of Days <input type="checkbox"/> 80% dry year IWR <input type="checkbox"/> N/A			
<b>Month</b>	<b>Volume (AF)</b>	<b>Month</b>	<b>Volume (AF)</b>	<b>Month</b>	<b>Volume (AF)</b>	<b>Month</b>	<b>Volume (AF)</b>
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 Depletion Analysis: Developed Spring*

☐ Applicable ☐ Not Applicable

80. Is the type of groundwater diversion for your proposed project a developed spring? If yes, skip to question 85 because no surface water depletion analysis will be necessary.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
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### Surface Water Depletion Analysis: Pond

☐ Applicable ☐ Not Applicable

81. Are there any ponds on the current version of the water rights proposed for change that will remain on the water rights unchanged ( <i>"unchanged"</i> ) or will be retired ( <i>"retired"</i> )? If yes,	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. Did you skip questions 74 to 76 because there is no change in POD? If yes,	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	<input type="checkbox"/> S	<input type="checkbox"/> F
b. Submit bathymetry data, survey, or engineering plans for each <i>unchanged</i> pond or <i>retired</i> pond. Label the submittal with the POD ID and whether the pond is <i>unchanged</i> or <i>retired</i> .	<input type="checkbox"/> S	<input type="checkbox"/> F
c. Are any of the <i>unchanged</i> or <i>retired</i> ponds fed or drained by surface water, in addition to groundwater?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. Explain. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	<input type="checkbox"/> S	<input type="checkbox"/> F



<p>82. Provide the schedule of diversions for out-of-pond use for each pond (<i>new, existing, unchanged, or retired</i>) for both <i>before</i> and <i>after</i> the proposed change. Use the same POD ID as the project maps. For <i>new</i> and <i>existing</i> ponds, use the Proposed Use Map (question 9). For <i>unchanged</i> and <i>retired</i> ponds use the Historical Use Map (question 8). Attach any additional diversion schedules using the same format as the table below. For <i>retired</i> ponds, mark "N/A" checkbox for after the change and for <i>new</i> ponds, mark "N/A" checkbox for before the change. Mark the checkbox "Diverted volume/# of Days" if it is a year-round use and the diversion schedule is an allocation of diverted volume by the number of days in the month. Mark the checkbox "80% dry year IWR" if it is an irrigation or lawn and garden use and the diversion schedule is the 80% dry year net irrigation requirement (IWR, NRCS 2003).</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
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(Before) POD ID				(After) POD ID			
<input type="checkbox"/> Diverted volume/# of Days <input type="checkbox"/> 80% dry year IWR <input type="checkbox"/> N/A				<input type="checkbox"/> Diverted volume/# of Days <input type="checkbox"/> 80% dry year IWR <input type="checkbox"/> N/A			
Month	Diversions for Out-of-Pond Use Volume (AF)	Month	Diversions for Out-of-Pond Use Volume (AF)	Month	Diversions for Out-of-Pond Use Volume (AF)	Month	Diversions for Out-of-Pond Use 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	

### *Extended Surface Water Depletion Analysis*

<p>83. Based on the preliminary net depletion data provided by the Department at this preapplication meeting, what are the hydraulically connected surface water sources before and after the proposed change? <i>*Net depletion data provided by the Department at the preapplication meeting are preliminary and are subject to change during the technical analyses. If the source or location of net depletion data changes during the technical analyses, then the extended surface water depletion analysis 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).</i></p> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px;"></div>	<input type="checkbox"/> A	<input type="checkbox"/> F
--	----------------------------	----------------------------



84. If an extended surface water depletion analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 157 to 161 to provide information required for this extended surface water depletion analysis?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, go to question 156. This information will be used if an extended surface water depletion analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, do you elect for the Department to use publicly available water quantity data for the extended surface water depletion analysis? If this extended surface water depletion analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended surface water depletion analysis. You will still need to prove a lack of adverse effect from the proposed change.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
ii. If no, you may still include the extended surface water depletion analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.		

### **Return Flow Analysis**

85. Do the purposes of the water rights proposed for change include irrigation?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, does the proposed change include a change in place of use <i>and/or</i> a change in purpose? If you propose to retire acres in the historical place of use and/or add new acres outside the historical place of use, this constitutes a change in place of use.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, a return flow analysis is required. Move on to answer question 86.		
ii. If no, this section is complete, and you may skip to question 94.		
86. Does the proposed change include a change in purpose?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, consumptive use information is collected in the Change in Purpose section (questions 101 to 108), skip to question 87.		
b. If no, skip to question 87.		
87. Does the proposed change include a change in place of use? If yes, move on to question 88. If no, skip to question 91.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F

88. Submit a map showing the new, unchanged historical, and retired historical places of use. Create map on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, and north arrow. If you have shapefiles associated with this map, in addition to submitting an image of the map, please submit electronic copies of the shapefiles to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F
89. How many acres, if any, will be retired from the historical place of use? _____		<input type="checkbox"/> F
90. Are irrigated acres proposed that are outside the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. How many acres? _____		<input type="checkbox"/> F
ii. What is the proposed irrigation method type (e.g., flood or sprinkler) and subtype (e.g., level border, graded border, furrow, contour ditch, wild flood, center pivot, or wheel line) for the new acres? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
iii. What is the slope (%) of the new place of use? _____		<input type="checkbox"/> F
iv. Based on question 90.a.ii to 90.a.iii, what is the percent efficiency of irrigation for the new acres? _____		<input type="checkbox"/> F
v. What is the County Management Factor for the new acres? _____		<input type="checkbox"/> F
vi. What is the ET based on the irrigation method and county for the new acres? _____		<input type="checkbox"/> F
vii. What percent of applied water are irrecoverable losses for new acres? _____		<input type="checkbox"/> F
91. Do you have information for the Department to consider about the source and location where return flows historically accrued?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, submit this information to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F

### Extended Return Flow Analysis

<p>92. Based on the preliminary data provided by the Department at this preapplication meeting, to what surface water sources do return flows accrue before and after the proposed change? <i>*Return flow data provided by the Department at the preapplication meeting are preliminary and are subject to change during technical analyses. If the source or location of return flow data changes during technical analyses, then the analysis of impacts to identified surface water rights 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).</i></p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>93. If an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 149 to 155 to provide information required for this extended analysis?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, go to question 149. This information will be used if an extended return flow analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect.</p>		
<p>b. If no, did you elect in question 1 for the Department to conduct technical analyses?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>i. If yes, do you elect for the Department to use publicly available water quantity data for the extended return flow analysis? If the extended return flow analysis is needed and sufficient publicly available water quantity data are not available, then the Department will not be able to conduct the extended analysis. You will still have to prove a lack of adverse effect from the proposed change.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>ii. If no, you may still include the extended return flow analysis with your technical analyses. The Department will include the extended analysis in its scientific credibility review of your technical analyses. You will still need to prove a lack of adverse effect from the proposed change.</p>		

## 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.

### Temporary Change

<u>Questions, Narrative Responses, and Tables</u>	<u>Check-boxes</u>	<u>Follow-Up</u>
94. Does the proposal include a temporary change? <i>This includes proposing to add a place of use on State of Montana Trust Land, with all points of diversion on private land, because the change authorization will be temporary for the duration of the lease term.</i> If yes, answer the questions in this section (questions 95 to 100). If no, this section is complete; skip to question 100.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
95. What elements of the water rights are being temporarily changed? _____		<input type="checkbox"/> F
96. For what purpose will the water rights be temporarily used? _____		<input type="checkbox"/> F
97. For how many years will the water rights be temporarily changed? _____		<input type="checkbox"/> F
98. Will the temporary change be intermittent over the years?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, explain. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
99. Is the quantity of water subject to the temporary change being made available from the development of a new water conservation or storage project?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, explain the water conservation or storage project. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
100. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 17 if you are proposing to add a place of use on State of Montana Trust Land and question 20.a.ii if you are proposing a temporary change that does not involve State of Montana Trust Land. If you are answering in consecutive order, go to question 101.		



## Change in Purpose

101. Does the project involve a change in purpose? If yes, answer the questions in this section (questions 102 to 108). If no, this section is complete; skip to question 108.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
102. Identify the new and unchanged purposes, flow rate (GPM or CFS), volume (AF), period of diversion, and period of use (MM/DD-MM/DD) for each purpose.	<input type="checkbox"/> A	<input type="checkbox"/> F

Purpose	New or Unchanged?	Period of Diversion	Period of Use	Flow Rate			Volume
		(MM/DD-MM/DD)	(MM/DD-MM/DD)	Flow Rate	GPM	CFS	(AF)
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	
<b>Total</b>					<input type="checkbox"/>	<input type="checkbox"/>	

103. Answer the questions specific to each new and unchanged purpose identified in question 102.								
<b>Lawn and garden</b>	Question 104	<b>Stock</b>	Question 105	<b>Domestic and multiple domestic</b>	Question 106	<b>Other purpose</b>	Question 107	

104. Lawn and garden		
a. Will consumptive use be based on the standard of 2.5 acre-feet per acre or a calculated volume based on Irrigation Water Requirements for turf grass?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, which standard? _____		<input type="checkbox"/> F
ii. If no, describe how consumptive use will be estimated. This must be based on expert analysis. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
105. Stock		
a. How many animal units will be served? _____		<input type="checkbox"/> F



106. Domestic and multiple domestic		
a. How many households will be served? _____		<input type="checkbox"/> F
b. Will the Department standard of 1 acre-foot per household be used to determine consumptive use?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no, what standard will be used? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
c. Will the proposed use include wastewater disposal and treatment?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, which of the following best describes the wastewater disposal and treatment system? Individual drain fields, central treatment facility with minimal consumption, or evaporation basin or land application? _____		<input type="checkbox"/> F
107. Other purpose		
a. What is the other purpose (e.g., municipal, commercial)? _____		<input type="checkbox"/> F
b. What is the percentage of consumption for the proposed use? Please explain. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
108. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 14 and if you are answering in consecutive order, go to question 109.		

### **Ditch-Specific Questions**

*Applications corroborating historical diverted volume with the Historical Use Addendum (Form 606-HUA) may be eligible to skip one or more questions in this section; see the Form 606-HUA for more information.*

109. Does the historical use of water include at least one conveyance ditch? If yes, answer questions 110 to 111. If no, skip to question 112.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
110. Submit a Historical Use Ditch Map that shows every ditch conveying water for the historical use of all water rights proposed for change. Label the ditch names, PODs, the POUs, and the ditch measurement locations (requested in question 111.d). The map should be created on a historical image or topographic map with the following: section corners, township and range, scale bar, and north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F



111. Answer question 111.a to 111.h one time for each historical conveyance ditch. If there is more than one historical conveyance ditch, use an "Additional Historical Ditch (606P)" sheet for each additional ditch.		
a. What is the ditch name? _____		<input type="checkbox"/> F
b. List the water rights proposed for change that were conveyed by the ditch. _____ _____		<input type="checkbox"/> F
c. What is the distance water was historically carried by the conveyance ditch? Only include segments between the POD and start of the POU; do not include segments within the POU. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
d. Provide at least one set of ditch measurements, which include width (FT), depth (FT), and slope (%). Discuss ditch characteristics with DNRC to determine the minimum number of ditch measurements. Include the location of each measurement, labeled with the 2-digit measurement ID number, used on the map submitted for question 110.	<input type="checkbox"/> S	<input type="checkbox"/> F

ID #	Width (FT)	Depth (FT)	Slope (%)	Date of Measurement

e. What is a reasonable Manning's n value? List the factors used for estimation. If you do not know this value, please work through estimation with the Department. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
f. What type of soils compose the historical conveyance ditch? For lined ditches, write "lined" instead. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F





g. Are other water rights conveyed by the historical conveyance ditch?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. List the water right numbers and their flow rates. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. What is the sum of the flow rates, including the water rights proposed for change? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
3. Submit a map with your best estimate of the historical POUs for the other water rights conveyed by the historical conveyance ditch. Include only POUs between the historical POD and your historical POU. If you do not know this information, the Department can help you create the map. The map should be created on an aerial photograph or topographic map and show the following: section corners, township and range, scale bar, and north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
h. Were any water rights proposed for change part of one historical water right that was split?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, were all split water rights split in such a way to ensure each post-split water right could stand alone and not be reliant on the others for carriage water?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If no, do any of the water rights proposed for change have a carriage water requirement?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. List the water rights with a carriage water requirement _____		<input type="checkbox"/> F
ii. Update your Historical Use Ditch Map (question 110) to label the ditch segments where a carriage water requirement exists for a water right proposed for change. Also, use your best estimate to label the POUs for all water rights included in the carriage water requirement. If you do not know this information, the Department can help you update the map.	<input type="checkbox"/> S	<input type="checkbox"/> F
112. Does the proposed use include at least one existing or new conveyance ditch? If yes, answer questions 113 to 114. If no, or if you answered these questions earlier in the preapplication meeting, this section is complete; skip to question 115.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F

113. Submit a Proposed Use Ditch Map that shows every ditch conveying the water rights proposed for change, including any unchanged portions. Label all unchanged and proposed PODs, all unchanged and proposed POUs, and additional ditch measurement locations (requested in question 114.e). The map should be created on an aerial photograph or topographic map with the following: section corners, township and range, scale bar, and north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
114. Answer the questions 114.a to 114.i one time for each proposed use conveyance ditch. Use an "Additional Proposed Use Ditch (606P)" sheet for each additional ditch.		
a. What is the ditch name? _____		<input type="checkbox"/> F
b. Is this ditch a historical conveyance ditch detailed in questions 110 to 111?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, have any of the following details changed, to the best of your knowledge, from historical conditions: ditch length, distance water conveyed, ditch lining, or water rights conveyed by the ditch?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes, answer questions 114.c to 114.i using current data.		
2. If no, do not answer questions 114.c to 114.i for this ditch because the information remains unchanged. Move on to the next proposed use conveyance ditch, or if none remain, skip to question 115.		
c. List the water rights proposed for change that are going to be conveyed by the ditch. _____		<input type="checkbox"/> F
d. What is the distance water will be carried by the conveyance ditch? Only include segments between the POD and start of the POU; do not include segments within the POU. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
e. Provide at least one set of ditch measurements, which include width (FT), depth (FT), and slope (%). Discuss ditch characteristics with DNRC to determine the minimum number of ditch measurements. Include the location of each measurement, labeled with the 2-digit measurement ID number, used on the map submitted for question 113.	<input type="checkbox"/> S	<input type="checkbox"/> F

ID #	Width (FT)	Depth (FT)	Slope (%)	Date of Measurement



<p>f. What is a reasonable Manning's n value? List the factors used for estimation. If you do not know this value, please work through estimation with the Department.</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>g. What type of soils compose the proposed conveyance ditch? For lined ditches, write "lined" instead.</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>h. Are other water rights conveyed by the proposed conveyance ditch?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>i. If yes,</p>		
<p>1. List the water right numbers and their flow rates.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>2. What is the sum of the flow rates, including the water rights proposed for change?</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>3. Submit a map with your best estimate of the location of current POUs for the other water rights conveyed by the proposed conveyance ditch. Include only POUs between the POD and your proposed POU. If you do not know this information, the Department can help you create the map. The map should be created on an aerial photograph or topographic map and show the following: section corners, township and range, scale bar, and north arrow.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>i. Were any water right(s) proposed for change identified as having a carriage water requirement in question 111.h.i.1.a.i?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>i. If yes, update your Proposed Use Ditch Map (question 113) to label the ditch segments where a carriage water requirement exists for a water right proposed for change. Also, use your best estimate to label the POUs for all water rights included in the carriage water requirement. If you do not know this information, the Department can help you update the map.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F
<p>115. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 15 and if you are answering in consecutive order, go to question 116.</p>		



## Change in Place of Storage

116. Does the project involve a change in place of storage? If yes, answer the questions in this section (questions 117 to 122) for each individual place of storage. Use an "Additional Place of Storage (606P)" sheet for additional places of storage. If no, this section is complete; skip to question 123.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
117. Is this application to add a new place of storage or change an existing place of storage? _____		<input type="checkbox"/> F
a. If application is to change an existing place of storage, list the water rights that include the place of storage and a short description of the proposed change. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
118. Is the place of storage located on-stream?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, describe any losses related to conveyance that are not detailed in "Ditch-Specific Questions." _____ _____ _____	<input type="checkbox"/> A	
119. What is the proposed capacity of the place of storage? 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: <i>Surface Acres x Maximum Depth (ft) x 0.5 = Capacity (AF)</i> _____	<input type="checkbox"/> S	<input type="checkbox"/> F
120. What is the proposed surface area of the place of storage? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
121. 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	<input type="checkbox"/> F
122. Will the place of storage be lined?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
123. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 16 and if you are answering in consecutive order, go to question 109.		



### **Mitigation, Aquifer Recharge, and Marketing for Mitigation/Aquifer Recharge**

124. Does your application include one of the following purposes? If no, this section is complete; skip to question 129.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. Mitigation water. If yes, answer question 125 and 126.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. Aquifer recharge water. If yes, answer question 125 and 127.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
c. Marketing for mitigation/aquifer recharge. If yes, answer question 128.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
125. Mitigation Water and Aquifer Recharge Water		
a. Identify the water right(s) for which the mitigation/aquifer recharge water will be used. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
b. Identify the application or preapplication number where these water rights were identified as needing mitigation or aquifer recharge to meet the adverse effect criterion. _____	<input type="checkbox"/> A	<input type="checkbox"/> F
c. What is the timing, flow rate, and volume of net depletions identified as needing mitigation or aquifer recharge to meet the adverse effect criterion?	<input type="checkbox"/> A	<input type="checkbox"/> F

Month	Days	Flow Rate			Volume	Month	Days	Flow Rate			Volume
		Flow	GPM	CFS				Flow	GPM	CFS	
January			<input type="checkbox"/>	<input type="checkbox"/>		July			<input type="checkbox"/>	<input type="checkbox"/>	
February			<input type="checkbox"/>	<input type="checkbox"/>		August			<input type="checkbox"/>	<input type="checkbox"/>	
March			<input type="checkbox"/>	<input type="checkbox"/>		September			<input type="checkbox"/>	<input type="checkbox"/>	
April			<input type="checkbox"/>	<input type="checkbox"/>		October			<input type="checkbox"/>	<input type="checkbox"/>	
May			<input type="checkbox"/>	<input type="checkbox"/>		November			<input type="checkbox"/>	<input type="checkbox"/>	
June			<input type="checkbox"/>	<input type="checkbox"/>		December			<input type="checkbox"/>	<input type="checkbox"/>	



d. Will other water contribute to the need for mitigation or aquifer recharge water? This may include water rights with a mitigation or aquifer recharge purpose, marketing for mitigation contracts, or mitigation water secured via other types of contracts.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, describe the origin of this water and in the table below, list how much it will contribute. <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>	<input type="checkbox"/> A	<input type="checkbox"/> F

Month	Days	Flow Rate			Volume AF	Month	Days	Flow Rate			Volume AF
		Flow	GPM	CFS				Flow	GPM	CFS	
January			<input type="checkbox"/>	<input type="checkbox"/>		July			<input type="checkbox"/>	<input type="checkbox"/>	
February			<input type="checkbox"/>	<input type="checkbox"/>		August			<input type="checkbox"/>	<input type="checkbox"/>	
March			<input type="checkbox"/>	<input type="checkbox"/>		September			<input type="checkbox"/>	<input type="checkbox"/>	
April			<input type="checkbox"/>	<input type="checkbox"/>		October			<input type="checkbox"/>	<input type="checkbox"/>	
May			<input type="checkbox"/>	<input type="checkbox"/>		November			<input type="checkbox"/>	<input type="checkbox"/>	
June			<input type="checkbox"/>	<input type="checkbox"/>		December			<input type="checkbox"/>	<input type="checkbox"/>	

<b>126. Mitigation Water</b>			
a. What is legal land description (¼ ¼ ¼ section of start and end) and length (ft) of the mitigation reach? <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>	<input type="checkbox"/> A	<input type="checkbox"/> F	
b. By what means will mitigation water be made available? You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>	<input type="checkbox"/> A	<input type="checkbox"/> F	
<b>127. Aquifer Recharge Water</b>			
a. What is the legal land description (¼ ¼ ¼ section) of the start of net depletions for which the aquifer recharge water will be used? <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>	<input type="checkbox"/> A	<input type="checkbox"/> F	



b. What is the volume of net depletions that will be offset by the aquifer recharge water? <i>The volume of aquifer recharge water injected may not equal the volume of net depletions.</i> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
c. Describe the method of aquifer recharge. Include, if available, a preliminary design. You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
d. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. <hr/> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
e. What is the proposed area or location of aquifer recharge? <i>The location is subject to refinement during technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).</i> <hr/> <hr/> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
<b>128. Marketing for Mitigation/Aquifer Recharge</b>		
a. What is the proposed location of the reach where water is to be marketed (¼ ¼ ¼ section of the start and the end of the reach)? <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
b. Is this marketing for mitigation	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, by what means will water be made available? <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F





c. Is this marketing for aquifer recharge?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. Describe the method of aquifer recharge. Include, if available, a preliminary design. You must submit a copy of all relevant discharge permits at application submittal (§85-2-364, MCA). _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. What is the volume of water that will be used for aquifer recharge? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
3. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
4. What is the proposed area or location of aquifer recharge? <i>The location is subject to refinement during technical analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).</i> _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
d. Describe your ability to measure and operate all existing diversions to adjust flow rate as water is sold or leased. _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



e. How will you cease diversions for the existing beneficial use as water is sold or leased? _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
129. If you are answering Project-Specific Questions as they are referenced in Application Details, return to question 25 and if you are answering in consecutive order, go to question 130.		

### **Instream Flow**

130. Does the project involve an instream flow change? If yes, answer the questions in this section (questions 131 to 136). If no, this section is complete; skip to question 136.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
131. What is the source name where streamflow will be maintained or enhanced? _____		<input type="checkbox"/> F
132. What is the location (¼ ¼ ¼ section of start and end of reach) and length (FT) of the protected reach? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
133. Describe the way the streamflow is to be maintained or enhanced. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
134. Do you propose to retire all water use associated with the historical purposes throughout the entire period of use? This includes conveyance loss associated with historical ditches.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, describe the proposed change to existing purposes, including flow rate, volume, and, if applicable, acres. _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
135. Do historical and proposed return flows accrete to the source of supply? The Department provides an initial estimate of the source(s) that historical and proposed returns flows accrete to at the preapplication meeting.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



136. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 27 and if you are answering in consecutive order, go to question 137.		
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### **Salvage Water**

137. Does this project involve salvage water? Salvage water does not include destroying phreatophytes, removing vegetation, converting to a less consumptive crop, or converting to a partial irrigation schedule. If yes, answer the questions in this section (questions 138 to 141). If no, this section is complete; skip to question 141.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
138. What water saving method was implemented? This may include lining an unlined ditch or canal, converting unlined ditch or canal to pipeline, converting high profile or high-pressure sprinklers to low pressure, and others. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
139. How much water was salvaged from implementation of the water saving method? Include flow rate (GPM or CFS) and volume (AF). _____		<input type="checkbox"/> F
140. How did you determine the amount of water salvaged? _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
141. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 28 and if you are answering in consecutive order, go to question 142.		



## 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

<u>Questions, Narrative Responses, and Tables</u>	<u>Check-boxes</u>
142. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. _____ _____ _____ _____	<input type="checkbox"/> A
143. Explain how you can control your diversion in response to call being made. _____ _____ _____	<input type="checkbox"/> A
144. Are you aware of any calls that have been made on any source of supply or depleted surface water source? a. If yes, explain. _____ _____	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> A
145. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source? a. If yes, list the sources and explain. _____ _____	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> A
146. Describe how the change will or will not affect your ability to make call. _____ _____	<input type="checkbox"/> A



147. When was the last time each water right proposed for change was appropriated and used beneficially? If there has been a period of nonuse, answer questions 147.a to 147.d. _____	
a. Why was the water right not used? _____ _____	<input type="checkbox"/> A
b. Why will a resumption of use not adversely affect other water users? _____ _____	<input type="checkbox"/> A
c. Is the period of nonuse greater than 10 years for any of the water rights proposed for change? If yes, list which water rights. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
d. Have water rights been authorized to use the source during the period of nonuse for any of the water rights proposed for change? If yes, explain. _____ _____	<input type="checkbox"/> Y <input type="checkbox"/> N
148. Is this a point of diversion change?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,	
i. Are the proposed points of diversion upstream or downstream of the historical points of diversion? _____	
ii. Are there intervening water users between the historical and proposed points of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, list the water rights. _____ _____	<input type="checkbox"/> A



iii. Will any new points of diversion or conveyance infrastructure be shared with one or more existing water rights?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, describe how capacity of the new shared point of diversion and/or conveyance infrastructure is sufficient for all water rights. _____ _____ _____	<input type="checkbox"/> A

*Adverse Effect: Evaluation of Impacts to Identified Surface Water Rights for Return Flow Analysis*

149. Respond to questions in this section if you elected in questions 65 or 93 to answer optional questions 150 to 154. Answer one time for each surface water source receiving return flows. Use "Additional Return Flow Source (606P)" sheet if there is more than one source. If you did not elect to answer these questions or answered these questions earlier in the preapplication meeting, this section is complete; skip to question 155.	
150. What is the surface water source for which you are answering questions 151 to 154? _____	
151. Are stream gage data available?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, answer question 152.	
b. If no, answer question 153.	
152. Stream gage data are available	
a. Is one stream gage located above, and one stream gage located below the location where return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, is only one stream gage located near the location where return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, is the stream gage upstream or downstream? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	



<p>c. What is the distance between the gage(s) and the location where return flows accrue? Write "N/A" for Gage 2 if one gage available.</p> <p>Gage 1: _____</p> <p>Gage 2: _____</p>	
<p>d. Is there a limiting or controlling factor on the source between the stream gage(s) and the location where return flows accrue? This includes dams that control the flow and streams with large gaining and/or losing reaches.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. If yes, explain.</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available.</p> <p>Gage 1: _____</p> <p>Gage 2: _____</p>	
<p>f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available.</p> <p>Gage 1: _____</p> <p>Gage 2: _____</p>	
<p>g. Is each available stream gage operated and maintained by USGS or DNRC?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. If yes, skip to question 152.h.</p>	
<p>ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.</p>	
<p>1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS.</p> <p>Gage 1: _____</p> <p>Gage 2: _____</p>	
<p>2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. Gage 1.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>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. _____</p>	<input type="checkbox"/> Y <input type="checkbox"/> N





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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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 when return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, record how many meet the standard, then skip to question 155 because this section is complete. _____	
ii. If no, answer question 153.	
153. 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 when return flows accrue, is the source otherwise measured?	<input type="checkbox"/> Y <input type="checkbox"/> N
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 154.	
b. If yes,	
i. Submit measurements to the Department.	<input type="checkbox"/> S
ii. Who collected the measurements? _____	<input type="checkbox"/> A

iii. With what method were the data collected? _____ _____	<input type="checkbox"/> A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	<input type="checkbox"/> A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, explain. _____ _____	
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 when return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, this section is complete. Skip to question 155.	
2. If no, answer question 154.	
154. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	<input type="checkbox"/> A



ii. Describe the estimation technique. <hr/> <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> A
b. If no, but a Department-accepted estimation technique will be appropriate for the source receiving return flows:	
i. Will measurements be collected prior to submission of a completed Form 606P-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?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes,	
a. With what method will the data be collected? <hr/> <hr/>	<input type="checkbox"/> A
b. What will be the interval of measurement? <hr/>	
c. Describe the proposed estimation technique. <hr/> <hr/> <hr/> <hr/>	A
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? Neither the Department's technical analyses nor scientific credibility review of your technical analyses can commence until the Department receives measurements that meet Department measurement standards, or in combination with an approved request for variance from these standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	<input type="checkbox"/> Y <input type="checkbox"/> N



c. If no, because no Department-accepted estimation technique will be appropriate for the source receiving return flows:	
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	<input type="checkbox"/> A
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months when return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If no, will measurements be collected prior to submission of a completed Form 606P that meet the Department's standard of monthly measurements throughout the months when return flows accrue?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, with what method will the data be collected? _____ _____	<input type="checkbox"/> A
b. If no, do you plan on requesting a variance to deviate from the Department's standard for monthly measurements throughout the months when return flows accrue? 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 for a variance from these standards are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	<input type="checkbox"/> Y <input type="checkbox"/> N
155. If you went straight to this section when referenced, go back to question 65 for surface water changes and question 93 for groundwater changes. If you waited to answer in consecutive order and have completed all prior sections, move to question 156.	

*Adverse Effect: Evaluation of Impacts to Identified Water Rights for Surface Water Depletion Analysis*

156. Respond to questions in this section if you elected in question 84 to answer optional questions 157 to 161. Answer one time for each hydraulically connected source. Use "Additional Hydraulically Connected Source (606P)" sheet if there is more than one source. If you did not elect to answer these questions or answered these questions earlier in the preapplication meeting, this section is complete; skip to question 162.	
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157. What is the surface water source for which you are answering questions 158 to 161? _____	
158. Are stream gage data available?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, answer question 159.	
b. If no, answer question 160.	
159. Stream gage data are available	
a. Is one stream gage located above and one stream gage located below the point of net depletion accumulation?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, is only one stream gage located near the point of net depletion accumulation?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, is the stream gage upstream or downstream? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	
c. What is the distance between the gage(s) and the point of net depletion accumulation? Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____	
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the point where net depletions accrue? This includes dams that control the flow and streams with large gaining and/or losing reaches.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, explain. _____ _____	<input type="checkbox"/> A
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	



f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
g. Is each available stream gage operated and maintained by USGS or DNRC?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, skip to question 159.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: _____	
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N

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?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, record how many meet the standard, then skip to question 162 because this section is complete. _____	
ii. If no, answer question 160.	
160. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
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 161.	
b. If yes,	
i. Submit measurements to the Department.	<input type="checkbox"/> S
ii. Who collected the measurements? _____	<input type="checkbox"/> A
iii. With what method were the data collected? _____ _____	<input type="checkbox"/> A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	<input type="checkbox"/> A





vii. Is there a process for maintaining the data and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, explain. _____ _____	
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?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, this section is complete. Skip to question 162.	
2. If no, answer question 161.	
161. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	<input type="checkbox"/> A
ii. Describe the estimation technique. _____ _____ _____ _____ _____	<input type="checkbox"/> A
b. If no, but a Department-accepted estimation technique will be appropriate for the hydraulically connected source:	
i. Will measurements be collected prior to submission of a completed Form 606P-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?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes,	
a. With what method will the data be collected? _____ _____	<input type="checkbox"/> A



<p>b. What will be the interval of measurement?</p> <p>_____</p>	
<p>c. Describe the proposed estimation technique.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>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.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>c. If no, because no Department-accepted estimation technique will be appropriate for the hydraulically connected source:</p>	
<p>i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>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?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If no, will measurements be collected prior to submission of a completed Form 606P that meet the Department's standard of monthly measurements throughout the months with net depletions?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes, with what method will the data be collected?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A



<p>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 to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>162. If you went straight to this section when referenced, go back to question 84. If you waited to answer in consecutive order and have completed all prior sections, move to question 163.</p>	

### **Adequate Means of Diversion and Operation**

<p>163. Submit a diagram of how you will operate your system from the point of diversion to the place of use.</p>	<input type="checkbox"/> S
<p>164. 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.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>165. Describe the size, materials, capacity, and configuration of infrastructure to convey water from point of diversion to place of use.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>166. Does the proposed conveyance require easements?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes, explain.</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>167. Do you propose to add a point of diversion?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes, do you own the land where all proposed points of diversion are located?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. 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.</p>	



168. Describe your plan of operations, including 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.  _____ _____ _____	<input type="checkbox"/> A
169. Do you have any plans to measure your diversion and use?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, describe the plan and the type of measurements you will take.  _____ _____	<input type="checkbox"/> A

### **Beneficial Use**

170. 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.	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, list the purposes for which the Department has a standard and note whether the water use falls within or outside the standard.  _____ _____	
171. If no 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.  _____ _____ _____ _____	<input type="checkbox"/> A
172. Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, have you researched or consulted with DEQ regarding those requirements?	<input type="checkbox"/> Y <input type="checkbox"/> N
173. Are you proposing to use surface water for in-house domestic use?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, does a COSA exist for the proposed place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, please submit the COSA.	<input type="checkbox"/> S
ii. If no, have you researched or consulted with DEQ regarding their requirements?	<input type="checkbox"/> Y <input type="checkbox"/> N



## **Possessory Interest**

174. 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.	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, explain. _____ _____ _____ _____	<input type="checkbox"/> A
b. If no, do you own all proposed places of use?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, 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. _____ _____ _____	<input type="checkbox"/> A

## **Non-Mandatory Project-Specific Questions**

### *Change in Place of Storage*

175. Does the project include one or more places of storage? If yes, answer questions 176 to 178 for each individual place of storage (use "Additional Place of Storage (606P)" sheet for additional places of storage). A Change Storage Addendum (606-SA) will be required at application submittal. If no, this section is complete; skip to question 179.	
176. Are preliminary designs available? Preliminary designs will be required at application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, submit preliminary designs.	<input type="checkbox"/> S
177. Will a drainage device be installed?	<input type="checkbox"/> Y <input type="checkbox"/> N
178. Is the place of storage capacity calculated to be greater than 50 acre-feet?	<input type="checkbox"/> Y <input type="checkbox"/> 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?	<input type="checkbox"/> Y <input type="checkbox"/> N



179. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 16 and if you are answering in consecutive order, go to question 180.	
--	--

### *Instream Flow Change*

180. You may respond to the questions in this section if the project involves an instream flow purpose and you choose to answer the non-mandatory questions. Otherwise, this section is complete, skip to question 184.	
181. Does the protected reach begin at the existing point of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, does the protected reach begin upstream of or downstream from the existing point of diversion? _____	
182. Provide initial details about a streamflow measuring plan, which include the points where measurements occur, the interval of measurement, and the methods and equipment used. A complete streamflow measuring plan will be required for the application.  _____ _____ _____ _____ _____ _____	<input type="checkbox"/> A
183. Provide initial details about an operation plan, which may include the proposed protected flow rate (GPM or CFS), proposed protected volume (AF), and the proposed protected period. If you propose a trigger flow, please explain. A complete operation plan, based on the technical analyses, will be required for the application.  _____ _____ _____ _____	<input type="checkbox"/> A
184. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 27 and if you are answering in consecutive order, go to question 185.	



### *Mitigation, Aquifer Recharge, and Marketing for Mitigation*

185. You may respond to the questions in this section if the project involves mitigation, aquifer recharge, or marketing for mitigation, and you choose to answer the non-mandatory questions. Otherwise, this section is complete, skip to question 190. For mitigation water, answer questions 186, 187, and 188. For aquifer recharge water, answer questions 187 and 188. For marketing for mitigation/aquifer recharge, answer question 189.	
186. Do the water rights proposed for change to mitigation water have a period of use that is greater than or equal to the period when mitigation is necessary?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, how will mitigation water be made available during the entire period when mitigation is necessary? _____ _____ _____	<input type="checkbox"/> A
187. How do the priority dates of the water rights proposed for change compare to other water rights on the source? _____ _____	<input type="checkbox"/> A
188. Do you have measurement records or Water Commissioner records that show the reliability of the water rights proposed for change to a mitigation water or aquifer recharge purpose?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, submit them to the Department.	<input type="checkbox"/> S
189. Describe the need for marketing for mitigation/aquifer recharge. _____ _____ _____ _____	<input type="checkbox"/> A
190. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 25 and if you are answering in consecutive order, go to question 191.	

### *Water Marketing*

191. You may respond to the questions in this section if the project includes the water marketing purpose, and you choose to answer the non-mandatory questions. This does not include marketing for mitigation. Otherwise, this section is complete, skip to question 195.	<input type="checkbox"/> Y <input type="checkbox"/> N
---	---



192. How will you control or limit access to the water?  	<input type="checkbox"/> A
193. Do you have contracts for the entire volume and flow rate sought?	<input type="checkbox"/> Y <input type="checkbox"/> N
194. Submit 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.	<input type="checkbox"/> S
195. If you are answering Project Specific Questions as they are referenced in Application Details, return to question 26 and if you are answering in consecutive order, go to Follow-Up section.	





## FOLLOW-UP

*The table below will identify all questions marked for follow-up. Applicant follow-up will be submitted with the completed Preapplication Meeting Form: Part B (Form 606P-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 606P-A) signed at the Preapplication Meeting. Instead, the Applicant must use the Amended Responses procedure defined in Form 606P-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 606P-B.***

QUESTION #	NOTES



[illegible]

## 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



FORM 606P-A

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION



**PREAPPLICATION MEETING  
FORM: PART B  
PERMIT**  
§ 85-2-302, MCA  
Form No. 600P-B (Revised 02/2025)

For Department Use Only

Application # 3017068 Basin 41K  
Form Received 4/29/25  
Fee Rec'd \$ 500.00 Check # 3926  
Deposit Receipt # LWS2518103  
Payor Tyrone Robinson  
Form Returned \_\_\_\_\_  
Refund \$ \_\_\_\_\_ Date \_\_\_\_\_

**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)).

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**APR 28 2025**

**LEWISTOWN WATER  
RESOURCES**

*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,

- Date form was returned ("Form Returned" date found in "For Department Use Only" box on the previously submitted Form 600P-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,

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





## 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

4-21-25  
Date

  
Applicant Signature

4/21/25  
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))."

  
Department Signature

5/1/25  
Date

  
Department Signature

5/1/25  
Date



## Shaw, Matthew

---

**From:** Bonnie Larsen <bonlarsen@gmail.com>  
**Sent:** Tuesday, April 22, 2025 8:52 AM  
**To:** Shaw, Matthew  
**Cc:** Bonnie Larsen  
**Subject:** [EXTERNAL] PreApplication Form Part A & B follow up information with Matt Shaw. 4/21/25, 1:04-1:28 p.m.

In the haste to get the signed documents in the mail, I'm positive I neglected to include our responses to the questions.

Please find below those responses.

Thank You.

----- Forwarded message -----

**From:** Bonnie Larsen <[bonlarsen@gmail.com](mailto:bonlarsen@gmail.com)>  
**Date:** Mon, Apr 21, 2025, 2:12 PM  
**Subject:** PreApplication Form Part A & B follow up information with Matt Shaw. 4/21/25, 1:04-1:28 p.m.  
**To:** Bonnie Larsen <[bonlarsen@gmail.com](mailto:bonlarsen@gmail.com)>  
**Cc:** <[a\\_gasvoda@hotmail.com](mailto:a_gasvoda@hotmail.com)>

Responses to Part A questions for identification in Part B , 2.a.

Page 5 - # 8 & 9

We have reviewed the map submitted and are satisfied.

Page 6 - 13 a.1.

The GEO is correct as indicated in the notes section, page 72.

Page 13 - #35

Bonnie L. Larsen has the historical knowledge. She is the water rights owner since inception.

Page 14 - #37

Yes, as there is no over lapping.

Page 26 - #60

This is included on the same map as indicated for #8 & 9.

Page 40 - #102

5.65 volume was added by DNRC and now complete.

We look forward to hearing from you to proceed with the next steps.





# REQUEST FOR PREAPPLICATION MEETING

ARM 36.12.1302(2)  
(Revised 02/2025)

For Department Use Only  
**RECEIVED - DNRC**

MAR 12 2025

LEWISTOWN WATER  
RESOURCES

## Instructions

Use this optional form to submit a written request for a 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.

Date Received 3/12/25  
Received By MPS  
Scheduled Meeting Date \_\_\_\_\_

(220098)

(439015)

1. Applicant Name Bonnie<sup>L</sup> Larsen + Amanda S. Hendrickson  
Mailing Address 230 Riverfront Lane ; 215 Riverfront Lane  
City Great Falls State Mt Zip 59404  
Home Phone 406-750-7383 (Hendrickson cell) Other Phone 406-217-2824 (Larsen)  
Email: bonlarsen@gmail.com ; a-gasvoda@hotmail.com

2. Representative Name (if other than Applicant) \_\_\_\_\_

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

Mailing Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ Other Phone \_\_\_\_\_  
Email: \_\_\_\_\_

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

☐ Permit ☒ Change

Work Copy

4. Describe your project:

Change from 6 acre irrigation to 2.26 acre lawn and garden sprinklers





## REQUEST FOR PREAPPLICATION MEETING

ARM 36.12.1302(2)

(Revised 02/2025)

### Instructions

Use this optional form to submit a written request for a 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.

For Department Use Only

**RECEIVED - DNRC**

**MAR 12 2025**

**LEWISTOWN WATER  
RESOURCES**

Date Received

3/12/25

Received By

MDS

Scheduled Meeting Date

1. **Applicant Name** Bonnie Larsen

Mailing Address 230 Riverfront Lane

City Great Falls State Mt Zip 59404

Home Phone \_\_\_\_\_ Other Phone 406-217-2824

Email: \_\_\_\_\_

2. **Representative Name** (if other than Applicant) \_\_\_\_\_

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

Mailing Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Home Phone \_\_\_\_\_ Other Phone \_\_\_\_\_

Email: \_\_\_\_\_

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

☐ Permit ☒ Change

4. **Describe your project:**

Change from 6 acre irrigation to 2.26 acre lawn and garden sprinklers



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

- a) The flow rate and volume of water required:

Flow Rate 38.4 ☒ GPM ☐ CFS Volume 5.65 Acre-Feet

- b) The point of diversion:

Point of Diversion #1 SE 1/4 SE 1/4 NE 1/4 Section 31 ~~32~~, Township 21 ☒ N ☐ S, Range 02 ☒ E ☐ W  
County Cascade

Lot/Tract 001 Block 005 Subdivision Name Twin silo ranchettes

Point of Diversion #2      1/4      1/4      1/4 Section     , Township      ☐ N ☐ S, Range      ☐ E ☐ W  
County     

Lot/Tract      Block      Subdivision Name     

**Work Copy**

- c) The place of use:

0.43 Acres Lot 19 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ E ☐ W

0.93 Acres Lot 21 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ E ☐ W

0.9 Acres Lot 23 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ 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: Sun River

- e) The proposed purpose: Lawn + Garden

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

Type of water right      Basin      Water Right # 41k500400

Type of water right      Basin      Water Right #     

Type of water right      Basin      Water Right #     

Identify the water right elements proposed for change, with a checkmark for each water right proposed for change.

Water Right #	41k500400				
Point of diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purpose of use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

a) The flow rate and volume of water required:

Flow Rate 38.4 ☒ GPM ☐ CFS Volume 5.65 Acre-Feet

b) The point of diversion:

Point of Diversion #1 1/4 1/4 1/4 Section 32, Township 21 ☒ N ☐ S, Range 02 ☒ E ☐ W

County Cascade

Lot/Tract 001 Block 005 Subdivision Name Twin silo ranchettes

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:

0.43 Acres Lot 19 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ E ☐ W

0.93 Acres Lot 21 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ E ☐ W

0.9 Acres Lot 23 Block Sw 1/4 Sw 1/4 Nw 1/4 Sec 32, Twp 21 ☒ N ☐ S, Rge 02 ☒ 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:     

e) The proposed purpose:     

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

Type of water right      Basin      Water Right # 41k500400

Type of water right      Basin      Water Right #     

Type of water right      Basin      Water Right #     

Identify the water right elements proposed for change, with a checkmark for each water right proposed for change.

Water Right #	41k500400				
Point of diversion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purpose of use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Place of storage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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

Going from ~~flood~~ <sup>sprinkler</sup> irrigation to lawn and garden with sprinklers

Work Copy

- 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 \_\_\_\_\_ ☐ 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 well or wells, the well depth(s) and location. If more than two wells, attach a separate sheet to this request:

Well #1 ☐ New Well ☐ Existing Well

For existing well, if available, Water Right # \_\_\_\_\_ GWIC ID \_\_\_\_\_

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_ ☐ N ☐ S, Range \_\_\_\_\_ ☐ E ☐ W

County \_\_\_\_\_

Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_

Estimated Well Depth \_\_\_\_\_ Feet

Well #2 ☐ New Well ☐ Existing Well

For existing well, if available, Water Right # \_\_\_\_\_ GWIC ID \_\_\_\_\_

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_ ☐ N ☐ S, Range \_\_\_\_\_ ☐ E ☐ W

County \_\_\_\_\_

Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_

Estimated Well Depth \_\_\_\_\_ Feet



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

Going from flood irrigation to lawn and garden with sprinklers

- 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 \_\_\_\_\_ ☐ 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 well or wells, the well depth(s) and location. If more than two wells, attach a separate sheet to this request:

Well #1    ☐ New Well    ☐ Existing Well

*For existing well, if available, Water Right # \_\_\_\_\_ GWIC ID \_\_\_\_\_*

1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_ ☐ N ☐ S, Range \_\_\_\_\_ ☐ E ☐ W

County \_\_\_\_\_

Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_

Estimated Well Depth \_\_\_\_\_ Feet

Well #2    ☐ New Well    ☐ Existing Well

*For existing well, if available, Water Right # \_\_\_\_\_ GWIC ID \_\_\_\_\_*

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_ ☐ N ☐ S, Range \_\_\_\_\_ ☐ E ☐ W

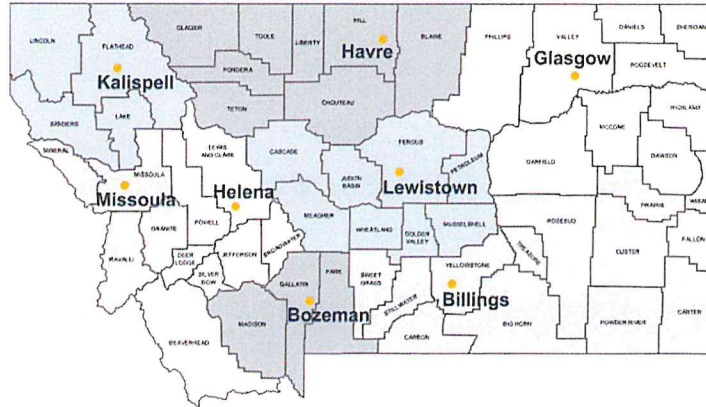
County \_\_\_\_\_

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](mailto:DNRCBillingsWater@mt.gov)

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



### **HELENA**

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

PHONE 406-444-6999 FAX 406-444-9317  
EMAIL [DNRCHelenaWater@mt.gov](mailto:DNRCHelenaWater@mt.gov)

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



### **BOZEMAN**

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

PHONE 406-586-3136 FAX 406-587-9726  
EMAIL [DNRCBozemanWater@mt.gov](mailto:DNRCBozemanWater@mt.gov)

*Gallatin, Madison, and Park Counties*



### **KALISPELL**

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

PHONE 406-752-2288  
EMAIL [DNRCKalispellWater@mt.gov](mailto:DNRCKalispellWater@mt.gov)

*Flathead, Lake, Lincoln, and Sanders Counties*



### **GLASGOW**

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

PHONE 406-228-2561  
EMAIL [DNRCGlasgowWater@mt.gov](mailto:DNRCGlasgowWater@mt.gov)

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



### **LEWISTOWN**

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

PHONE 406-538-7459  
EMAIL [DNRCLewistownWater@mt.gov](mailto:DNRCLewistownWater@mt.gov)

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



### **HAVRE**

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

PHONE 406-265-5516  
EMAIL [DNRCHavreWater@mt.gov](mailto:DNRCHavreWater@mt.gov)

*Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole 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](mailto:DNRCMissoulaWater@mt.gov)

*Granite, Mineral, Missoula, and Ravalli Counties*

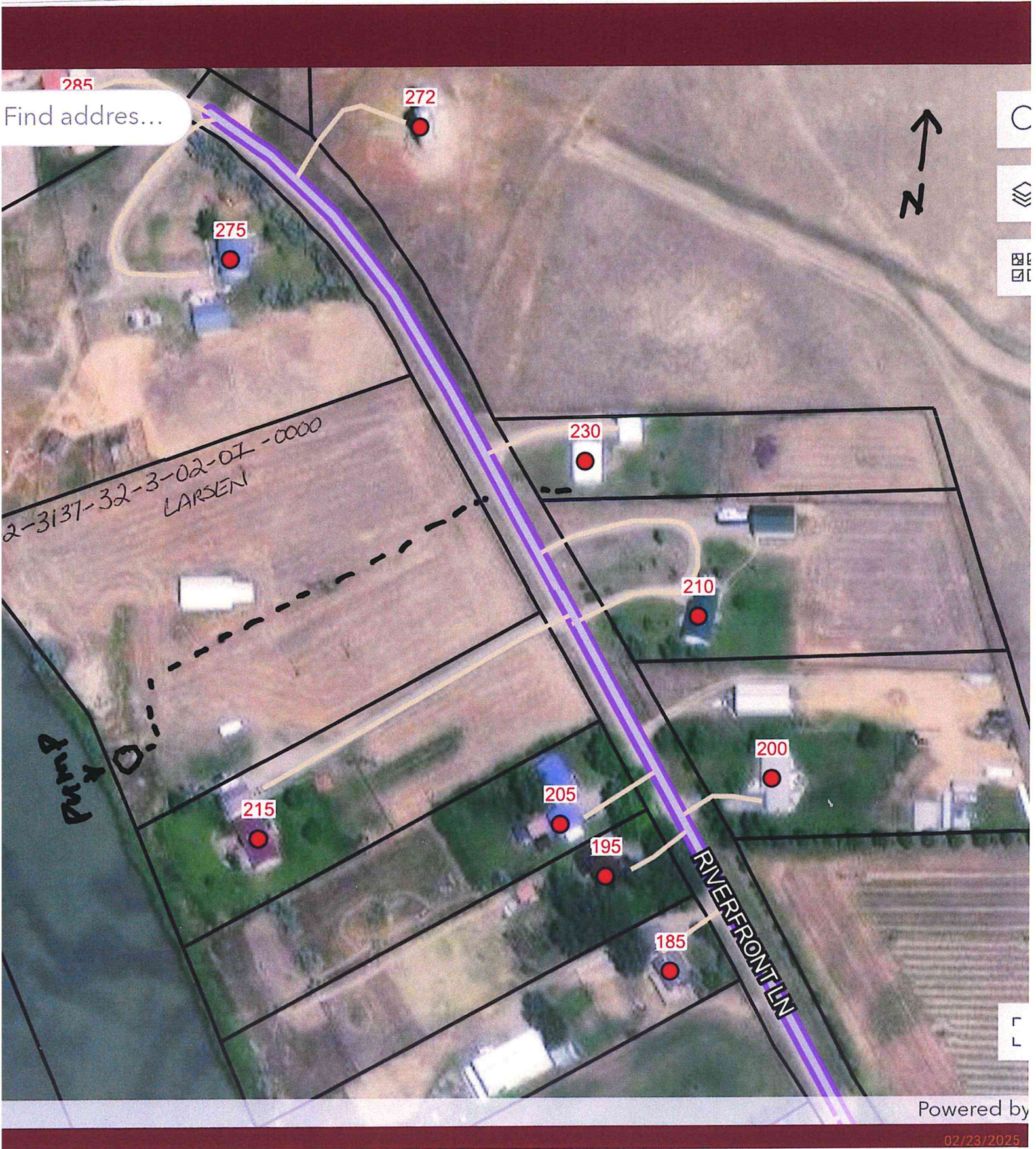


MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION  
Water Resources Division – Water Rights Bureau  
<https://dnrc.mt.gov/Water-Resources/Water-Rights/>



# Question 170

2" FLEXIBLE BLACK PIPE. ---

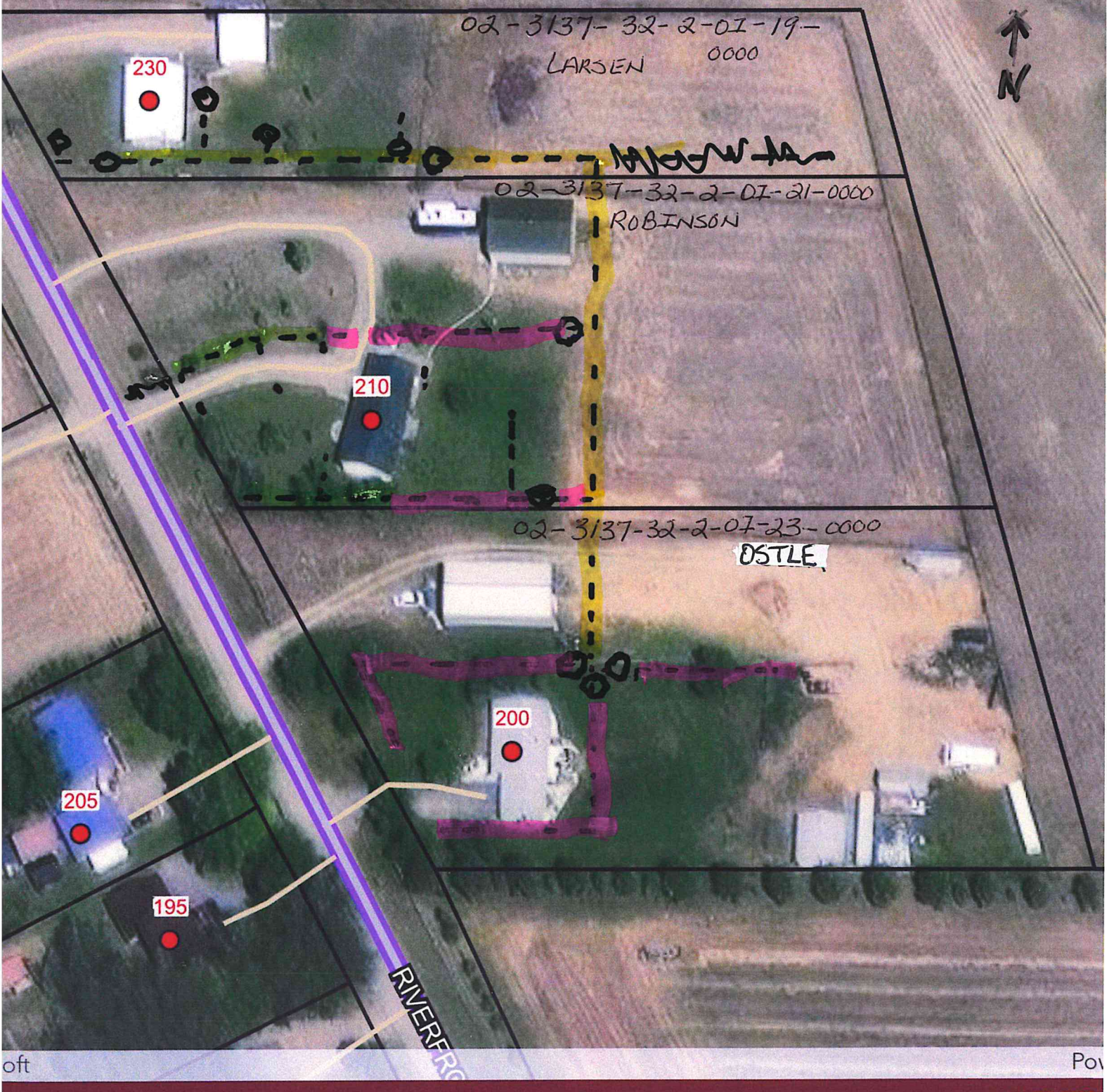




1 1/2"   
Valves   
1" 

2" 

Find address...





Within the boundaries of the Sun Prairie Estates and  
win Silos Developments, the only housing Units not  
egally authorized lawn and garden irrigation from  
the Sun river are these three units.

This shows the dynamics of this application.

