

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

May 4, 2026

Richland County Conservation
District
2745 West Holly St.
Sidney, MT 59270

Subject: Correct and Complete Application for Conservation District Water Reservation Based
Change No. 40S 30173545

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 rights application.

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

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

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

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

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



Best,

Kailee Ingalls



Kailee Ingalls | Water Resource Specialist
Water Resources Division, Havre Regional Office
Montana Department of Natural Resources and Conservation
Physical | 210 6th Ave | Havre MT 59501
Mailing | PO Box 1828 | Havre MT 59501
DESK: 406-808-7126 **EMAIL:** kailee.ingalls@mt.gov

ELECTRONIC COPY:

Mark Elison

<marke@hydrosi.com>

Christine Kangas

<christinek@hydrosi.com>



Application Materials

- Work Copy
- Application
- Any information submitted with Application including maps

Application Materials



CONSERVATION DISTRICT APPLICATION TO CHANGE WATER RESERVATION

§85-2-316, MCA

Form No. 606-CD (Revised 01/2024)

RECEIVED
For Department Use Only

APR 23 2026

DNRC WATER RESOURCES
HAVRE REGIONAL OFFICE

When to use this form:

- Use Form 606-CD to add a point of diversion, place of use, or place of storage to a Conservation District Water Reservation.
- Complete this form if the point of diversion, or any portion of the proposed place of use or place of storage **was not** included in the original public notice.
- For a change in purpose, use Form 606, Application to Change a Water Right, instead.

Filing fee:

- The filing fee for Form 606-CD is \$2500 **without the filing fee reduction.**
- The filing fee for Form 606-CD is \$1500 **with the filing fee reduction.**
- Please make checks payable to DNRC.

Application # 30173545 Basin 405
Priority Date _____ Time 10:00 (AM/PM)
Rec'd By DH
Fee Rec'd \$ 1000 Check # 8922
Deposit Receipt # HVS 2626799
Payor Richland County Conservation District
Refund \$ _____ Date _____

Important 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)).

1. Conservation District (CD): Richland County Conservation District

Mailing Address: 2745 W Holly St. City Sidney State MT Zip 59270

Phone Numbers: Work 406-943-3001 Cell _____

Email Address: julie.goss@mt.nacdn.net or richlandcd@gmail.com

2. Producer Name: F&M Ranch LLC

Mailing Address: PO Box 454 City Culbertson State MT Zip 59218

Phone Numbers: Home 406-787-5794 Work _____ Cell 406-787-5212

Email Address: trauma1@yahoo.com

3. Project Completion – The Department will set the project completion deadline to December 31 of the year set by the Conservation District in its authorization.

4. Affidavit – A Conservation District Board Member Must Sign

5. "Sage Grouse Habitat Project Review" required if the diversion and/or place of use are located within an area designated as sage grouse habitat. (<https://sagegrouse.mt.gov/>)

Outside Habitat



CHANGE APPLICATION INFORMATION

This application may only be used to add a point of diversion, place of use, or place of storage to include a project that was not included in the original Water Reservation public notice.

- Yes ☐ No ☒ Was the point of diversion included in the original public notice?
Yes ☐ No ☒ Was the entire place of use included in the original public notice? If not, complete this form.

Section A. Water Reservation Details

- A.1 58.75 CFS How much flow rate remains for this CD water reservation prior to this application?
A.2 13,731.7 AF How much volume remains for this CD water reservation prior to this application?
A.3 4/1/ to 10/31 What is the typical period of diversion the CD authorizes?
A.4 up to 2.5 What volume per acre (AF/AC) does the CD typically authorize?

Section B. Application Details

- B.1 ☒ Submit a copy of the Conservation District Application from the Producer.
B.2 ☒ Submit a signed copy of the Reserved Water Use Authorization from the Conservation District.
B.3 ☒ Submit a copy of the CD Public Notice from the Conservation District.
B.4 ☒ Submit a copy of the Affidavit of Publication from the Conservation District.
B.5 ☒ Submit a copy of the public notice Certificate of Service from the Conservation District.
B.6 ☐ Yes ☐ No ☒ Did the public notice of the Application receive any objections?
If Yes, attach a copy.

Section C. Project Location

- C.1 **Point of Diversion:** Describe the location of the proposed diversion(s) to the nearest 10 acres.
Include additional Points of Diversion on a separate sheet.

POD #1 NE 1/4 SE 1/4 SE 1/4 Sec 20 Twp 27N N/S Rge 57E E/W County Richland
Lot _____ Block _____ Tract No. _____ Subdivision Name _____
Government Lot _____ Latitude _____ Longitude _____

POD #2 NW 1/4 SE 1/4 SE 1/4 Sec 20 Twp 27N N/S Rge 57E E/W County Richland
Lot _____ Block _____ Tract No. _____ Subdivision Name _____
Government Lot _____ Latitude _____ Longitude _____

- C.2 **Place of Use:** Describe the location of the proposed Place of Use to the nearest 10 acres.
Include additional Places of Use on a separate sheet.

ACRES IRRIGATED. Describe to the nearest 10 acres. Include additional Places of Use on a separate sheet.

2.5 Acres 3 Lot _____ Block SW 1/4 SW 1/4 SW 1/4 Sec 21 Twp 27N N/S Rge 57E E/W State Lands
32 Acres _____ Lot _____ Block _____ 1/4 SW 1/4 SE 1/4 Sec 29 Twp 27N N/S Rge 57E E/W State Lands
31 Acres _____ Lot _____ Block _____ 1/4 NW 1/4 NW 1/4 Sec 33 Twp 27N N/S Rge 57E E/W F&M Ranch
_____ Acres _____ Lot _____ Block _____ 1/4 _____ 1/4 _____ 1/4 Sec _____ Twp _____ N/S Rge _____ E/W



Section D. Supplemental Water Rights

When two or more water rights overlap the proposed place of use, the water rights are considered supplemental.

- D.1 Yes ☐ No ☒ Are there any water rights that overlap the place of use proposed in this application? If yes, identify those rights. If no, skip to Section D.

<i>Water Right No. & Basin</i>	<i>Priority Date</i>

- D.2 Why is this water reservation needed to supplement the acres?

Per adjudication proceedings the user agreed to obtain reservation waters to cover portions of places of use on State Lands' property that are not covered by 40S 171255-00 (F&M Ranch) and 215560-00 (State Lands' claim)

- D.3 Explain how all of the supplemental water rights will be collectively operated.

Not supplemental, associated diversions/pumps. One pivot per pump run at a time, when needed. Two existing pumps already in use (40S 171255-00).

Section E. Map – ARM 36.12.111

- E.1 ☒ Provide a map depicting the proposed point of diversion, means of conveyance, place of use, and place of storage.
- E.2 ☒ If there are supplemental water rights, provide one map depicting all of the historic points of diversion, means of conveyance, and places of use. Label each point of diversion with the water right number.

Section F. Adverse Effect – ARM 36.12.1903

The determination of whether adverse effect will occur is based on the details of the proposed project. If the CD is adding a point of diversion or place of use, the CD needs to show that the proposed project will not create an adverse effect to junior or senior water rights. In some cases, adding a point of diversion may require the physical and legal demands on the source be known. If a legal demand analysis is needed and the legal demands exceed the amount of water physically available, the CD may need to provide a mitigation plan.

The Department will review the proposed project and contact the CD if mitigation is required or if other information is required to address possible adverse effects.



Section G. Adequate Diversion Means and Operation - ARM 36.12.1904

G.1 Describe the preliminary design plans and specifications for the proposed diversion and conveyance facilities and the equipment used to put the water to beneficial use.

Enclosed are design specifications, operations description and pipelines are identified on Detailed Development Plan Map.

G.2 Yes ☒ No ☐ Are there other water rights that use the same diversion from the source, such as a ditch? If yes, explain why this water right will not exceed the capacity of the diversion works.

40S 171255-00 contains the diversions used for these places of use.

Section H. Beneficial Use – ARM 36.12.1801

H.1 How does the water use benefit you, other persons, or the public?

Irrigation promotes local and individual economic benefits and fulfills the objective of the Water Reservation.

H.2 How did you determine the flow rate needed for the project?

Existing system, no new flow rate requested.

H.3 How did you determine the acre-feet needed for the project?

This system was verified by DNRC for 1.9 AF/Acre and that is what the applicant is requesting. See 40S 171255-00.

Additionally, meets Water Use Standards ARM 36.12.115.

The information provided for this application is to the best of my knowledge true and correct. 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.

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

Printed Name

Shawn Conradson, Chairman Richland City Conservat District

Applicant Signature

[Signature]

Date:

4-16-2026

Printed Name

Applicant Signature

Date:



WATER RESOURCES REGIONAL OFFICES



BILLINGS

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

PHONE 406-247-4415 FAX 406-247-4416

EMAIL DNRCBillingsWater@mt.gov

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



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

PHONE 406-586-3136 FAX 406-587-9726

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Gallatin, Madison, and Park Counties



GLASGOW

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

PHONE 406-228-2561

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



HAVRE

210 6th Ave., PO Box 1828
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Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties



HELENA

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



KALISPELL

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

PHONE 406-752-2288

EMAIL DNRCKalispellWater@mt.gov

Flathead, Lake, Lincoln, and Sanders Counties



LEWISTOWN

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

PHONE 406-538-7459

EMAIL DNRCLewistownWater@mt.gov

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



MISSOULA

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

PHONE 406-721-4284 FAX 406-542-5899

EMAIL DNRCMissoulaWater@mt.gov

Granite, Mineral, Missoula, and Ravalli Counties





Conservation District Application to Change Water Reservation Technical Analyses Report

Department of Natural Resources and Conservation (DNRC or Department)

Water Resources Division

Kailee Ingalls, Water Resource Specialist, Havre Regional Office

Application No.	40S 30173545	Proposed Point of Diversion	NWSESE & NESESE, Section 20, T27N, R57E, Richland County.
Applicant	Richland County Conservation District		

Overview

This report 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 §85-2-311, Montana Code Annotated (MCA). This report was completed by regional office staff.

This Conservation District Application to Change Water Reservation Technical Analyses Report contains the following sections:

Overview.....	1
1.0 Application Details	2
2.0 Historical Use Analysis.....	3
3.0 Analysis of Impacted Surface Water Sources.....	4
3.1 Summary of Proposed Use.....	4
3.2 Source Description	4
3.3 Method of Estimation.....	4
3.4 Monthly Flow Rate and Volume.....	4
4.0 Area of Potential Impact Analysis	6
Review	7
References.....	7
Appendix A: Water Rights within the Area of Potential Impact.....	8



1.0 Application Details

The Applicant proposed to add points of diversion and places of use to the Richland County Conservation District Water Reservation (40S 84500-00) that were not included in the original water reservation public notice. The authorization is to include portions of existing center pivots that have been omitted from the F&M Ranch Statement of Claim 40S 171255 00 and the Montana State Board of Land Commissioners Statement of Claim 40S 215560 00. The Applicant proposes to divert water from the Missouri River, by means of two pumps, from April 1 through October 19 for 124.45 AF, from a point in the NWSESE and a point in the NESESE, Section 20, T27N, R57E, Richland County, for Sprinkler Irrigation use from April 1 through October 19. No new flow rate is being proposed. A total of 65.5 AC is proposed. The proposed place of use includes three pivots located in the following legal descriptions:

Table 1: Proposed Place of Use							
Pivot Number (See Figure 1)	Acres	Quarter Section	Section	Township	Range	County	Ownership
"Pivot 2"	2.5	SWSWSW	21	27N	57E	Richland	State of MT
"Pivot 1"	32	SWSE	29	27N	57E	Richland	State of MT
"Pivot 6"	31	NWNW	33	27N	57E	Richland	F&M Ranch

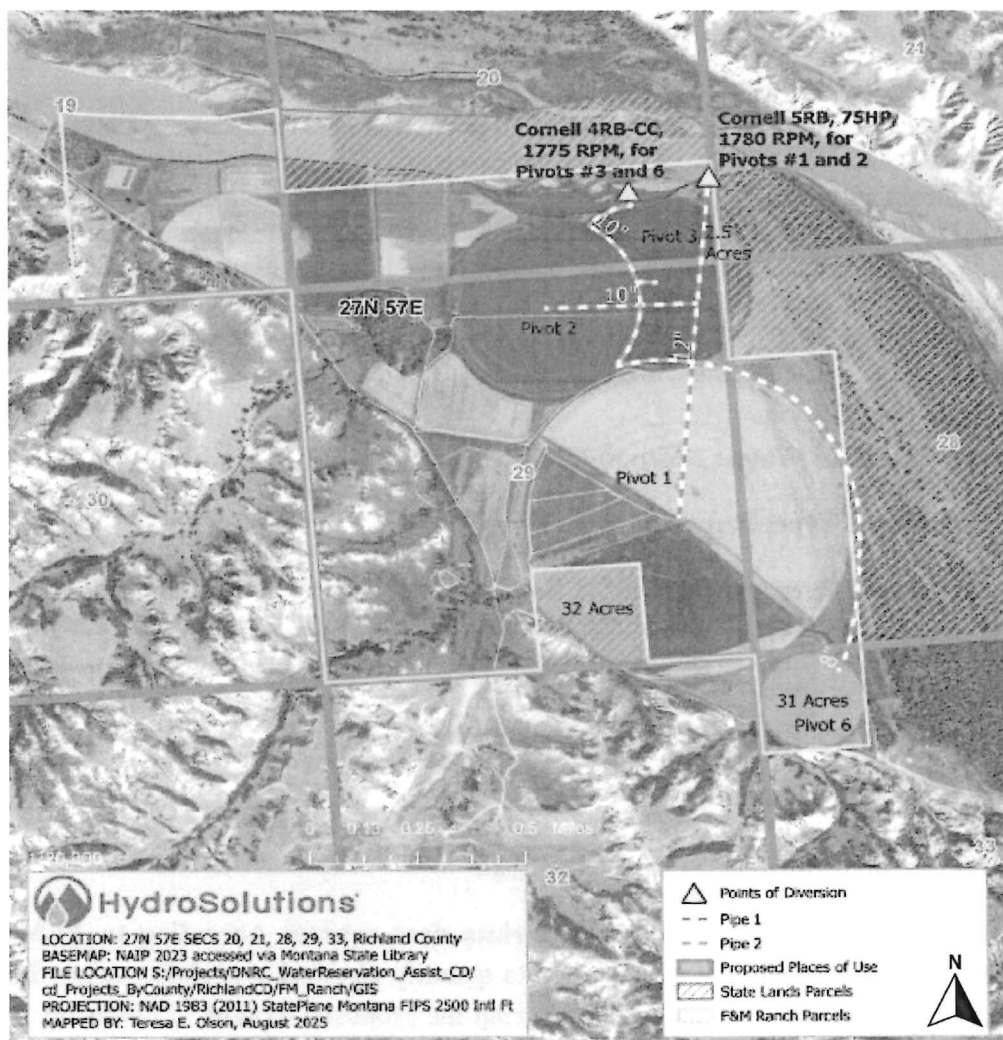


Figure 1: Map of Applicants Proposed Point of Diversion and Place of Use for CD Change Pre-Application No. 40S 30173545 created by HydroSolutions in August 2025.

2.0 Historical Use Analysis

The Applicant proposes to change a portion of the Richland County Conservation District Water Reservation that has not yet been put to use, and therefore, no historical use for the amount of water being changed exists.

The Board of Natural Resources and Conservation granted the Richland County Conservation District a water reservation (40S 84500-00) for 186.9 CFS up to 25,349 AF for use on 11,141 acres for future irrigation development out of the Missouri River. The water reservation was granted in the Lower Missouri River Basin Final Order dated December 30, 1994, with a priority date of July 1, 1985.



3.0 Analysis of Impacted Surface Water Sources

3.1 Summary of Proposed Use

The Applicant proposes to use a non-perfected portion of Richland County Conservation District Water Reservation No. 40S 84500-00 for Irrigation use. The place of use is described in Table 1. The Applicant proposes the period of diversion to be April 1 through October 19. The total proposed volume that the applicant will utilize from the Richland Conservation District, Missouri River, Water Reservation is 124.45 AF. The Applicant did not request any additional flow rate. Richland County Conservation District Water Reservation (40S 84500-00) has a flow rate of 58.75 CFS and a volume of 13,731.7 AF remaining in their water reservation prior to this application.

3.2 Source Description

Proposed Source of Water: Missouri River

Proposed Source Type: Perennial

Proposed Point of Diversion: NWSESE, Section 20, T27N, R57E, Richland County.
NESESE, Section 20, T27N, R57E, Richland County.

3.3 Method of Estimation

Gage Name: USGS Missouri River near Culbertson, MT.

Gage Number: 06185500

Period of Record: April 1958- September 2024

Why this gage is considered an appropriate data source: According to ARM 6.12.1702, available stream gage records will be used to quantify physical availability using the median of the mean monthly flow rate and volume during the proposed months of diversion. USGS Gage #06185500, Missouri River near Culbertson, is the nearest gage to the proposed POD and is approximately 6 river miles upstream of the POD. The date range includes the entire period of record for this gage.

3.4 Monthly Flow Rate and Volume

Methodology: The physical availability of the Missouri River water at the POD will be quantified monthly. Department practice for physical availability analyses where the gage used is upstream of the POD is to subtract the monthly flow rates of existing water rights between the gage and the POD to the median of the mean monthly flows at the gage. The DNRC used the method below to quantify physically available monthly flows and volumes at the POD during the proposed period of diversion:

1. The Department calculated the median of the mean monthly flow rates in cubic feet per second (CFS) for the Missouri River using USGS Gage #06185500 records for each month of the proposed period of diversion (Table 2, column B). Those flows were converted to monthly



volumes in AF (Table 2, column C) using the following equation found on DNRC Form 615:
 $\text{median of the mean monthly flow (CFS)} \times 1.98 (\text{AF/day/1 CFS}) \times \text{days per month} = \text{AF/month}$.

2. The Department calculated the monthly flows appropriated by existing users upstream of the gage on the source (Table 2, column D) by:
 - i. Generating a list of existing water rights from the Missouri River USGS Gage #06185500 to the NESESE Section 20, T27N, R57E, Richland County, POD (list is included in the application file and available upon request);
 - ii. Calculating the flow rate of all Livestock Direct from Source water rights drinking from the reach of interest using either 30 GPD/AU for Statements of Claim or 15 GPD/AU for all other water rights and adding 35 GPM.
 - iii. Calculating a volume for all Livestock Direct from Source rights without a designated volume by multiplying the number of AU by 30 GPD/AU for Statements of Claim or 15 GPD/AU for all other water rights.
 - iv. Calculating a volume for all Irrigation rights without a designated volume by multiplying the number of acres by 2.69 AF/AC per Department water use standards for a moderate consumptive use climatic area.
 - v. Assuming that the flow rate of each existing right is continuously diverted throughout each month of the period of diversion. This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion. The Department has determined that this leads to an overestimation of existing uses from the source.
3. Since the gage used is upstream of the POD, the Department subtracted in the flow rates of the existing rights between USGS Gage #06185500 and the POD on the Missouri River (Table 2, column D) to the median of the mean monthly gage values (Table 2, column B) to determine physical availability at the POD (Table 2, column F). Physically available monthly flows were then converted to monthly volumes (Table 2, column G).

Table 2: Physical Availability at the Point of Diversion on the Missouri River

A	B	C	D	E	F	G
Month	Median of the Mean Monthly Flow at Gage 06185500 (CFS)	Median of the Mean Monthly Volume at Gage 06185500 (AF)	Existing Rights from Gage 06185500 to POD (CFS)	Existing Rights from Gage 06185500 to POD (AF)	Physically Available Water at POD (CFS)	Physically Available Water at POD (AF)
April	8,000	475,200	46.49	823.33	7,953.51	474,376.67
May	8,656	531,305	57.62	1,297.46	8,598.38	530,007.82
June	9,547	567,092	57.62	1,297.46	9,489.38	565,794.34
July	9,371	575,192	57.62	1,297.46	9,313.38	573,894.52
August	8,973	550,763	57.62	1,297.46	8,915.38	549,465.28
September	7,836	465,458	57.62	1,297.46	7,778.38	464,160.94
October	6,976	428,156	54.95	1,188.92	6,920.55	426,967.27



4.0 Area of Potential Impact Analysis

The Area of Potential Impact for this application is: The area of potential impact is approximately 5.4 river miles downstream of the uppermost proposed point of diversion (NWSESE, Section 20, T27N, R57E, Richland County). A total of 20 surface water rights exist within the reach. A list of rights can be found in Appendix A: Tables 3, 4, and 5.

Why this is an appropriate Area of Potential Impact: The Area of Potential Impact extends 5.4 river miles from a point in the NWSESE, Section 20, T27N, R57E, Richland County, to E2NE Section 36, T27N R57E, Richland County. The Board of Natural Resources and Conservation granted the Richland County Conservation District a Water Reservation (40S 84500-00) for 186.9 CFS up to 25,349 AF for use on 11,141 AC for future irrigation development out of the Missouri River. The water reservation was granted in the Lower Missouri River Basin Final Order dated December 30, 1994, with a priority date of July 1, 1985.

Methodology: A list of water rights that divert from the Missouri River at the uppermost point of diversion (NWSESE, Section 20, T27N, R57E, Richland County) to approximately 5.4 river miles downstream was compiled using the DNRC GIS web application Water Mapper. Water rights could include all active Statements of Claim, Provisional Permits, Conservation District Reservations, Instream Flow Reservations, Federally Reserved Water Rights, and Hydropower Water Rights.



Review

This document has been reviewed by Matt Miles on March 2, 2026.

References

Department Standard Practice for Determining Historical Use
Department Standard Practice for Determining Physical Availability of Surface Water
Department Standard Practice for Determining Area of Potential Adverse Effect



Appendix A: Water Rights within the Area of Potential Impact



Table 3: Water Rights within the Area of Potential Impact

Water Right Number	Volume (AF)	Flow Rate (CFS)	Period of Diversion	Water Right Type
40S 12708 00	1,388	8.02	04/15 to 11/15	PROVISIONAL PERMIT
40S 99060 00	309.7	2.23	05/01 to 09/30	PROVISIONAL PERMIT
40S 137594 00	1.9	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 137576 00	1.29	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 30062765	182	1.52	04/01 to 10/15	CONSERVATION DISTRICT RECORD
40S 30113093	243	4.2	01/01 to 12/31	PROVISIONAL PERMIT
40S 30153305	210	1.5	01/01 to 12/31	PROVISIONAL PERMIT
40S 215560 00	102.22	1.44	04/01 to 11/04	STATEMENT OF CLAIM
40S 137593 00	1.29	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 186738 00	43.06	0.14	01/01 to 12/31	STATEMENT OF CLAIM
40S 135791 00	10.34	0.09	01/01 to 12/31	STATEMENT OF CLAIM
40S 30132248	17	0.68	01/01 to 12/31	STATEMENT OF CLAIM
40S 74618 00	540	2.23	04/01 to 09/15	PROVISIONAL PERMIT
40S 171255 00	1,827.36	15.6	04/15 to 10/19	STATEMENT OF CLAIM
40S 30142622	2.45	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 135792 00	7.89	0.09	01/01 to 12/31	STATEMENT OF CLAIM
40S 30142668	0.07	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 137592 00	0.88	0.08	01/01 to 12/31	STATEMENT OF CLAIM

KEY	Irrigation - Volume via Climatic Area
	Irrigation - Volume as Claimed
	Livestock Direct from Source

Table 4: Fish, Wildlife, and Parks Water Reservation (40S 30017671)

Water Right Number	Flow (CFS)	Volume (AF)	Period of Diversion	Water Right Type
40S 30017671	5,178	3,748,500	01/01 to 12/31	FWP Water Reservation

Table 5: Fort Peck-Montana Compact, MCA §85-20-201, Article III F.1 Volumes

Month	Fort Peck Tribal Right (AF)	Fort Peck Tribal Right (CFS)**
April	50,000	840
May	105,000	1708
June	145,000	2437
July	215,000	3497
August	180,000	2927
September	105,000	1765
October	50,000	813

** Flow rate in CFS is calculated by dividing monthly volume in AF by the number of days in the month by 1.98 AF/day.

CONSERVATION DISTRICT DETAILED DEVELOPMENT PLAN REVIEW CHECKLIST

When to use this form:

- This checklist is used by the CD Technical Advisor to review the application information and document on whether the applicant had submitted information to support issuance of a reserved water right.

Conservation District: Richland County Conservation District

Phone Number: 406-433-2103 x 101

Email Address: Julie.goss@mt.nacdn.net or richlandcd@gmail.com

CD Application No: RI-029 Date Review Request Received: 7/1/2025

Applicant Name: F & M Ranch LLC

Phone Number: 406-787-5794 or 406-787-5212 email: traauma1@yahoo.com

- | | | | | |
|----|---|--|---|-----------------------------|
| 1. | Is point of diversion accurate? | Was updated from 2018 original application date NESESE and NWSESE Section 20, 27N 57E | ☒ Yes | ☐ No |
| 2. | Is place of use accurate? | Also updated from 2018. See Remarks section for break down. | ☒ Yes | ☐ No |
| 3. | Is the volume requested reasonable? | 124.45 AF = 1.9 AF/Acre matching DNRC permit 40S 171255-00 which covers the majority of the pivots/fields. | ☒ Yes | ☐ No |
| 4. | For tributary sources of water, can drainage yield the volume needed? | N/A | ☐ Yes | ☐ No |
| 5. | Is the flow rate appropriate? | N/A no new flow rate requested; 40S 171255-00 includes flow rate of 7,000gpm already. Both pumps included, change authorizations 3 and 5. See Remarks section. | ☐ Yes | ☐ No |
| 6. | Are the diversion means adequate? | | ☐ Yes | ☐ No |

See
Comment

a. What is the means for diversion: Two existing pumps Cornell 4RB-CC and 5RB

- | | | | | |
|-----|--|--|---|-----------------------------|
| 7. | Are the conveyance facilities adequate? | 8", 10", and 12" pipelines already in place. | ☒ Yes | ☐ No |
| 8. | Is the period of use within the CD application limits? | 4/15 - 10/19 matches 171255-00. | ☒ Yes | ☐ No |
| 9. | Does the map accurately identify the POD and POU? | Updated from original 2018 by HydroSolutions. | ☒ Yes | ☐ No |
| 10. | Does the soils information show the majority of land can be irrigated effectively? | All profiles considered well drained for irrigation. | ☒ Yes | ☐ No |

a. Source of soils information: USDA Soil Survey via ArcGIS Online

- | | | | | |
|-----|---|--|---|--|
| 11. | Is the water quality acceptable for irrigation? | No concerns for irrigation; water quality gage located ~80 miles upstream at Wolf Point for public water supply monitored by ASRWSS. | ☒ Yes | ☐ No |
| 12. | Are the engineering designs reasonable? | By Agri-Industries. | ☒ Yes | ☐ No |
| 13. | Is the method of water measurement acceptable? | Annual water use reports. Measuring device likely required by DNRC via the change process. | ☒ Yes | ☐ No |
| 14. | Were objections received to the application? | | ☐ Yes | ☒ No |

Number and proximity of objectors: _____

- | | | | |
|-----|---|---|-----------------------------|
| 15. | Are there associated water rights? Check downstream rights. | ☒ Yes | ☐ No |
|-----|---|---|-----------------------------|

Associated water right numbers: 40S 171255-00 F&M irrigation right

How are the rights associated? Shared diversions/pumps

Limit of combined rights: 7,000 GPM and 1.9 AF/Acre

16. Are there any existing rights at POD & POU? See #15. No overlapping POUs. ☒ Yes ☐ No
- a. Check ownership at POD & POU PODs on F&M Ranch; POU Section 21 & 29 State Lands; Section 33 F&M Ranch. ☐ Yes ☒ No
17. Does any pipes cross any roads? ☐ Yes ☒ No
18. Is the Point of Use in a Channel Migration Zone? ☐ Yes ☒ No
19. Are there other conservation problems? None noted via aerial interpretation. ☐ Yes ☒ No
20. Is a sage grouse habitat project review required? Nothing along the river east of Wolf Point ☐ Yes ☒ No
21. Are additional permits required? _____ type ☐ Yes ☒ No
22. Water usage calculated? Change Authorization 40S 30116313 for claim 171255-00 determined historic diverted volume as 1404.6 AF equal to 1.9 AF/acre. Application for 1.9 AF/Acre. ☐ Yes ☒ No See comment

Calculating water usage:

- Where is the property or location of field?
- How many acres do you irrigate?
- What type of pump do you use?
- Is this flood or sprinkler/pivot irrigation?
- Is the field leveled?
- If it's flood irrigation, are there border dikes? Furrow? Or is it wild flood?
- What is the condition of ditches if you use them?

A. Downstream rights Findings:

Compiled in public notice list; published per requirements.

B. Existing or overlapping rights at POD and POU Findings:

Discussed in #15. No overlapping places of use, shared diversions only. This application is to provide applicant with 100% water right coverage where 171255-00 (F&M Ranch) and 215560-00 (State Lands) are missing acres.

C. Ownership at POD and POU Findings:

F&M Ranch at PODs: Geocode 27393320303010000
 State Lands 2 POUs: Geocodes 27393321303010000, 27393329403010000
 F&M POU: Geocode 27393333202010000

D. Soils Information Findings:

All well drained soils. Primarily Lohler silty clay loam, Cherry silty clay loam 2-4%, Cherry silty clay loam 0-2%.

E. Conservation Problems Findings: (noxious weeds, saline seep, erosion, pan spots, surface salts, hydric soils)
None noted per aerial photo interpretation (NAIP, Google Earth imagery) or soils review.

F. Pipeline crossings: Does the pipeline cross any railroad tracks or roads? ☐ Yes ☒ No

G. DNRC Change Application (606-CD) Information: Is 606 needed? ☒ Yes ☐ No

Not an original project nor included in any subsequent CD change applications.

H. Remarks:

Place of Use:

2.5 acres Lot 3 SWSWSW Section 21; 27N 57E (State Lands)

32 acres SWSE Section 29, 27N 57E (State Lands)

31 acres NWNW Section 33, 27N 57E (F&M Ranch LLC)

APPROVAL:

Applicant Printed Name

F&M Ranch LLC by Terri Reason
member

Date

11-4-2025

Applicant Signature



☐
☐
☐
☒
☐

Complete Project Information Worksheet

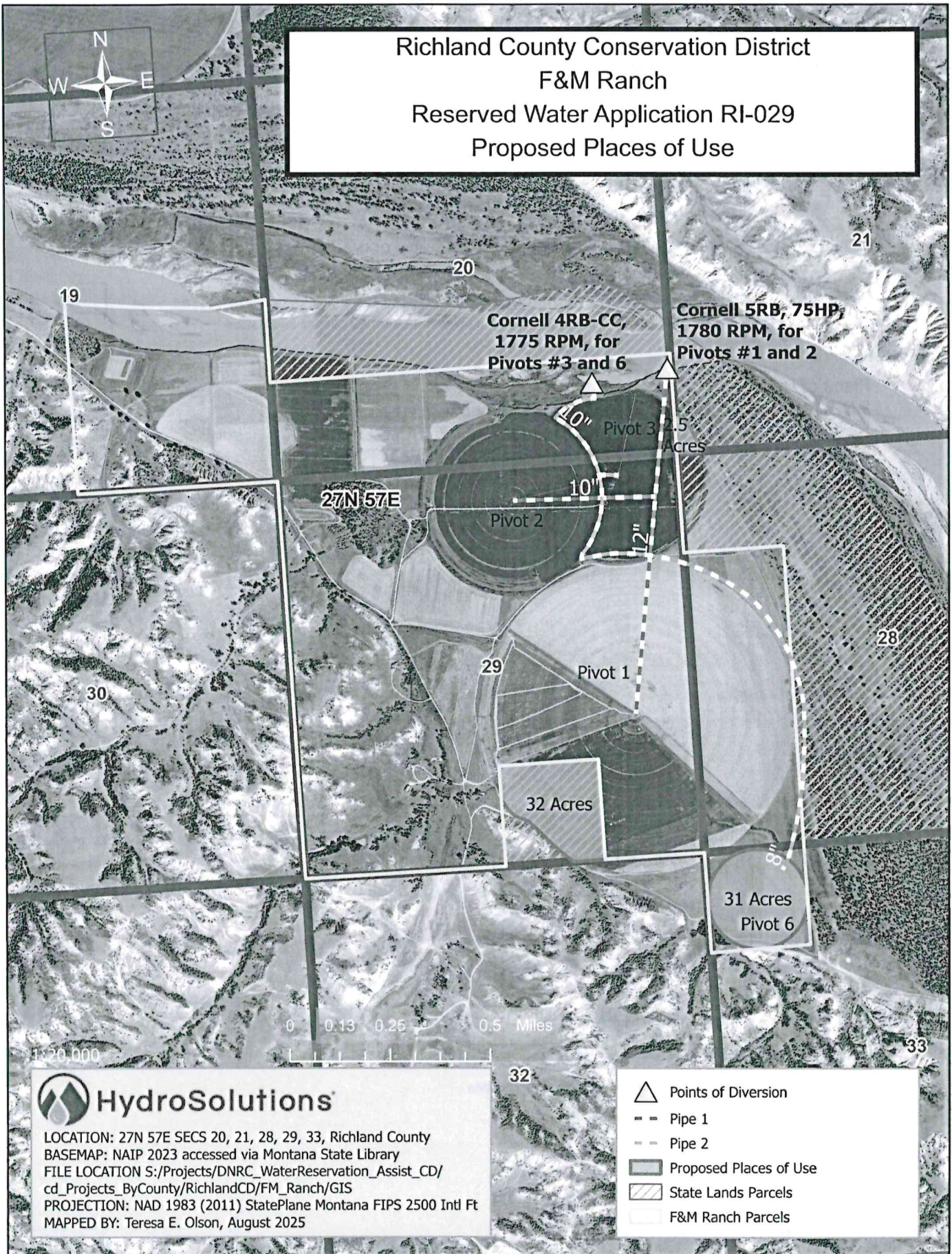
Complete Irrigation Volume Requirements Estimate

Complete a Water Use Flow Requirements Recommendation

Complete a CD Criteria Assessment Review Form

Print a Wetlands Map

Richland County Conservation District
F&M Ranch
Reserved Water Application RI-029
Proposed Places of Use



F&M Ranch LLC Operations Description

*Summarized from two emails from Terril Raaum 11/12/2025

Only one pivot per pump will be run at a time and not all the time, only when needed. If it is rainy or cool, may not run for weeks. Try not to put more than 1/3" down per pass, any more than that the wheel tracks become too deep.

Richland County Conservation District
F&M Ranch
Reserved Water Application RI-029
Soils Map



20

Lohler silty clay loam

29
Cherry silty clay
loam 0-2%

Lohler silty clay loam
Havrelon silt loam

28

27N 57E

Lambert-Badland Complex

Cherry silty
clay loam 2-4%

Legend

-  Proposed Places of Use
-  Cherry silty clay loam, 0 to 2 percent slopes, Well drained
-  Cherry silty clay loam, 2 to 4 percent slopes, Well drained
-  Havrelon silt loam, 0 to 1 percent slopes, Well drained
-  Lambert-Badland complex, Well drained
-  Lohler silty clay loam, Well drained

1:20,000

0 0.1 0.2 0.4 Miles

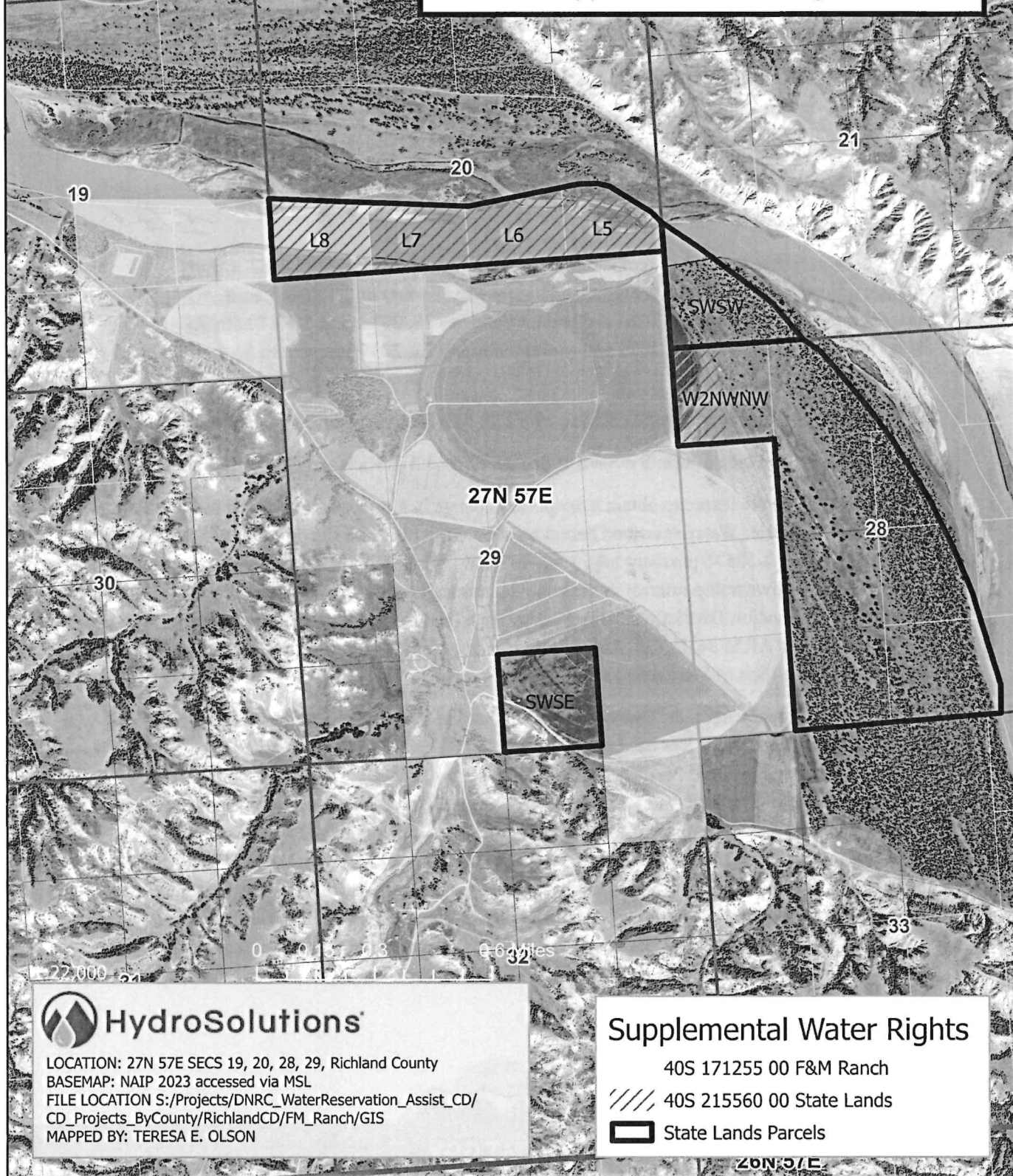


HydroSolutions

LOCATION: 27N 57E SECS 20, 21, 28, 29, 33, Richland County
BASEMAP: NAIP 2023 accessed via Montana State Library
FILE LOCATION S:/Projects/DNRC_WaterReservation_Assist_CD/
cd_Projects_ByCounty/RichlandCD/FM_Ranch/GIS
PROJECTION: NAD 1983 (2011) StatePlane Montana FIPS 2500 Intl Ft
MAPPED BY: Teresa E. Olson, September 2025



Richland County Conservation District
F&M Ranch
Reserved Water Application RI-029
Supplemental Water Rights



HydroSolutions

LOCATION: 27N 57E SECS 19, 20, 28, 29, Richland County
BASEMAP: NAIP 2023 accessed via MSL
FILE LOCATION S:/Projects/DNRC_WaterReservation_Assist_CD/
CD_Projects_ByCounty/RichlandCD/FM_Ranch/GIS
MAPPED BY: TERESA E. OLSON

Supplemental Water Rights

40S 171255 00 F&M Ranch

//// 40S 215560 00 State Lands

State Lands Parcels



Montana Department of Natural Resources and Conservation
Trust Lands Management Division
Authorization for Temporary Change in Appropriation Right
Consent Form

The lessee proposes to obtain a temporary change in appropriation right to use Richland Conservation District water on school trust land for the duration of the State Lease AG-10540; lease term beginning March 1, 2024 and ending February 28, 2034, and State Lease AG-10576; lease term beginning March 1, 2025 and ending February 28, 2035 pursuant to §§ 8S-2-407 and -441, MCA.

AG-10540 Place of use: SWSE Sec 29 T27N 57E Richland County 32 acres

AG-10576 Place of use: SWSWSW Sec 21 T27N R57E Richland County 2.5 acres

TLMD authorizes the lessee to obtain a temporary change in appropriation right to use Richland Conservation District Water described herein on school trust land for the duration of State Leases AG-10540 and AG-10576 pursuant to §§ 8S-2-407 and -441, MCA. TLMD does not assert an ownership or co-ownership interest in the water temporarily being applied. Temporary use of the Richland Conservation District water on the state trust land is not an improvement subject to 77-6-301, MCA, and ARM 36.25.125. Authorization is only for the term of the lease and must be re-applied for at the time of lease renewal.

This approval is made upon the express condition that the lessee shall assume all liability for any injury, property damage or loss by any persons, including such loss to any employee or property of lessee, its agents, or third persons, or to the lessee, from any cause or causes arising from placing the above-described water on state land. Lessee shall indemnify lessor and save, protect, defend, and hold lessor harmless from any and all liability, loss, damage, expense (including legal expenses and reasonable attorney fees), causes of action, suits, claims or judgments arising from injury to person or property or resulting from or based upon lessor's ownership of the property, which is the subject of this lease, from any cause or causes arising from using the above-described water on state land, and shall, at lessee's own cost and expense, defend any and all suits which may be brought against lessor, either alone or in conjunction with others, upon

any such liability or claim(s). Lessee shall satisfy, pay and discharge any and all judgments and fines that may be recovered against lessor in any such action(s).

Lessee Signature

Stacy LPM
DNRC Area/Unit Office Approval

Elizabeth Miller
DNRCAG & Grazing Bureau Approval

9-22-2025

Date

10-1-2025

Date

9/29/2025

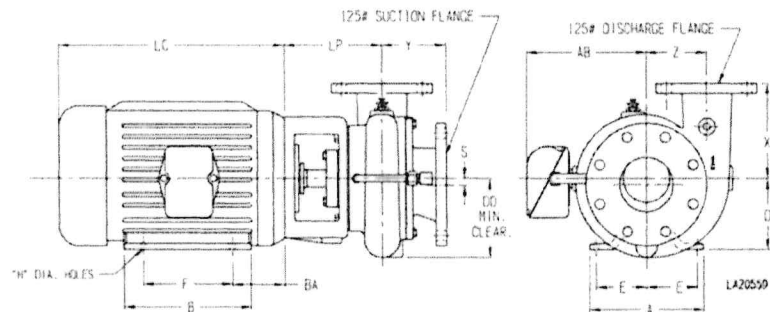
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DATA SHEET

4RB-CC



PUMP DIMENSIONS

MODEL	CONNECTION		DISCHARGE INCREMENT	AK DIM.	DD	S	X	Y	Z	LP
	DISCHARGE	SUCTION								
4RB	4	6	90°	8.5	10.88	-	10	7.38	8	7.75
				12.5	10.88	-	10	7.38	8	7.75

MOTOR DIMENSIONS

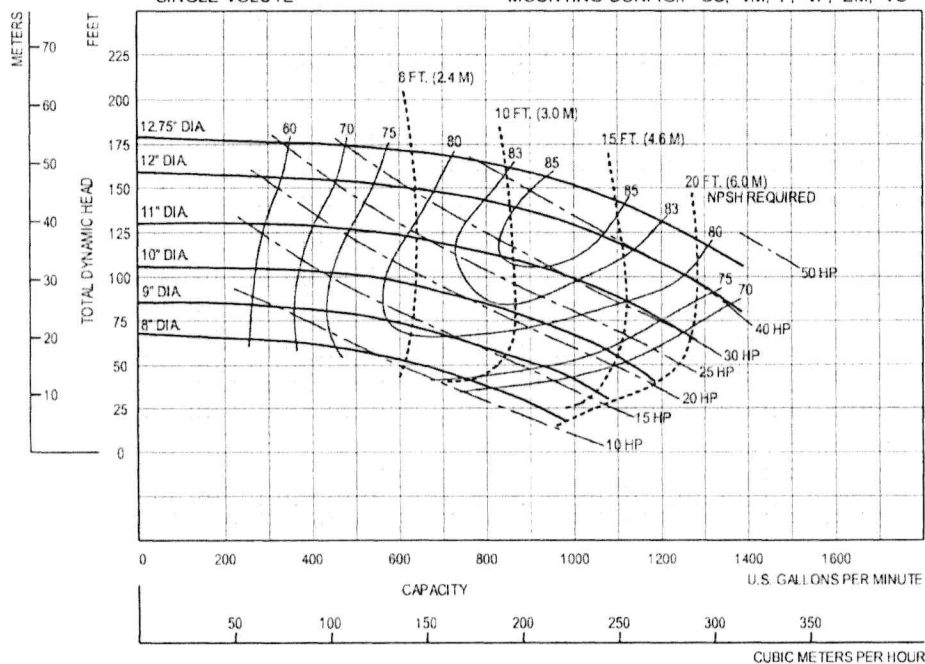
MOTOR FRAME	AK DIM.	A	B	D	E	F	H	AB	BA	LC
324-6	12.5	14.25	14	8	6.25	12	0.66	12.22	5.5	22.19
364-5	12.5	15.75	14	9	7	12.25	0.66	13.2	6.12	24.31
404-5	12.5	18.5	16.62	10	8	13.75	0.81	16.39	6.88	29.97

Feet x .305 = Meters
Inches x 25.4 = Millimeters
GPM x .227 = Cubic Meters/Hour
GPM x 3.785 = Liters/Minute
HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
1775	VARIOUS	ENCLOSED	.84"	1332	6"	4"	7

SINGLE VOLUTE

MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Performance shown are for cool water, close-coupled electric configuration with packing. Other mounting configurations, seal arrangements or liquids may require horsepower and/or performance adjustments.



Cornell Pump Company • Portland, Oregon

4RB - 1800 RPM

12/87/4

NEW PAGE

4RB18

DS4RBCC-103014



DATA SHEET

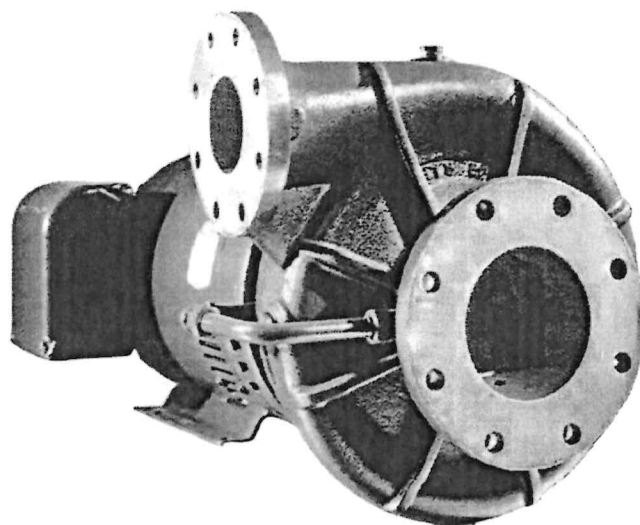
4RB-CC

AVAILABLE MOUNTING CONFIGURATIONS

4RB-CC CLOSE-COUPLED
4RB-VM VERTICAL CLOSE-COUPLED

OPERATING LEVELS

MIN FLOW	150 GPM	34 m ³ /h
MAX FLOW	1390 GPM	315.5 m ³ /h
DISCHARGE SIZE	4"	102 mm
SUCTION SIZE	6"	152 mm
SOLIDS HANDLING	0.84"	21.34 mm
MAX SPEED	1800 RPM	1800 RPM
SHUT-OFF HEAD	180'	55 m
MAX WORKING PRESSURE	175 PSI	1207 kPa
BEP HEAD	145'	44.2 m
BEP FLOW	1030 GPM	234 m ³ /h
BEP PERCENT	85%	85%



A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

The 4RB general purpose pump is designed with Cornell's renowned quality and durability. It features a 4" discharge and a 6" suction, enclosed multi-vane impeller and flanged tangential single volute. Optional motors include TEFC (other options available).

- External hydraulic balance line
- Back pullout design
- Replaceable hub & suction wear rings
- Replaceable shaft sleeve
- High efficiency hydraulics
- Low operating costs
- Two year warranty
- Optional Cycloseal® with type 1 mechanical seal
- Optional Run-Dry™ lubrication system
- "Shower curtain shield" bearing protection

PARTS	STANDARD MATERIAL (CAST IRON BRONZE FITTED)
WEAR RINGS	Bronze SAE 660
IMPELLER	Bronze SAE 40
VOLUTE	Cast Iron ASTM A48 CL30
SHAFT	Carbon Steel
SHAFT SLEEVE	Bronze SAE 660
BACKPLATE	Cast Iron ASTM A48 CL30
PACKING (STANDARD)	Graphited Acrylic
MECHANICAL SEAL (OPTIONAL)	Single T-1, Buna, Carbon/ Ceramic
MOTOR	Open drip-proof w/ 1.15 service factor



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



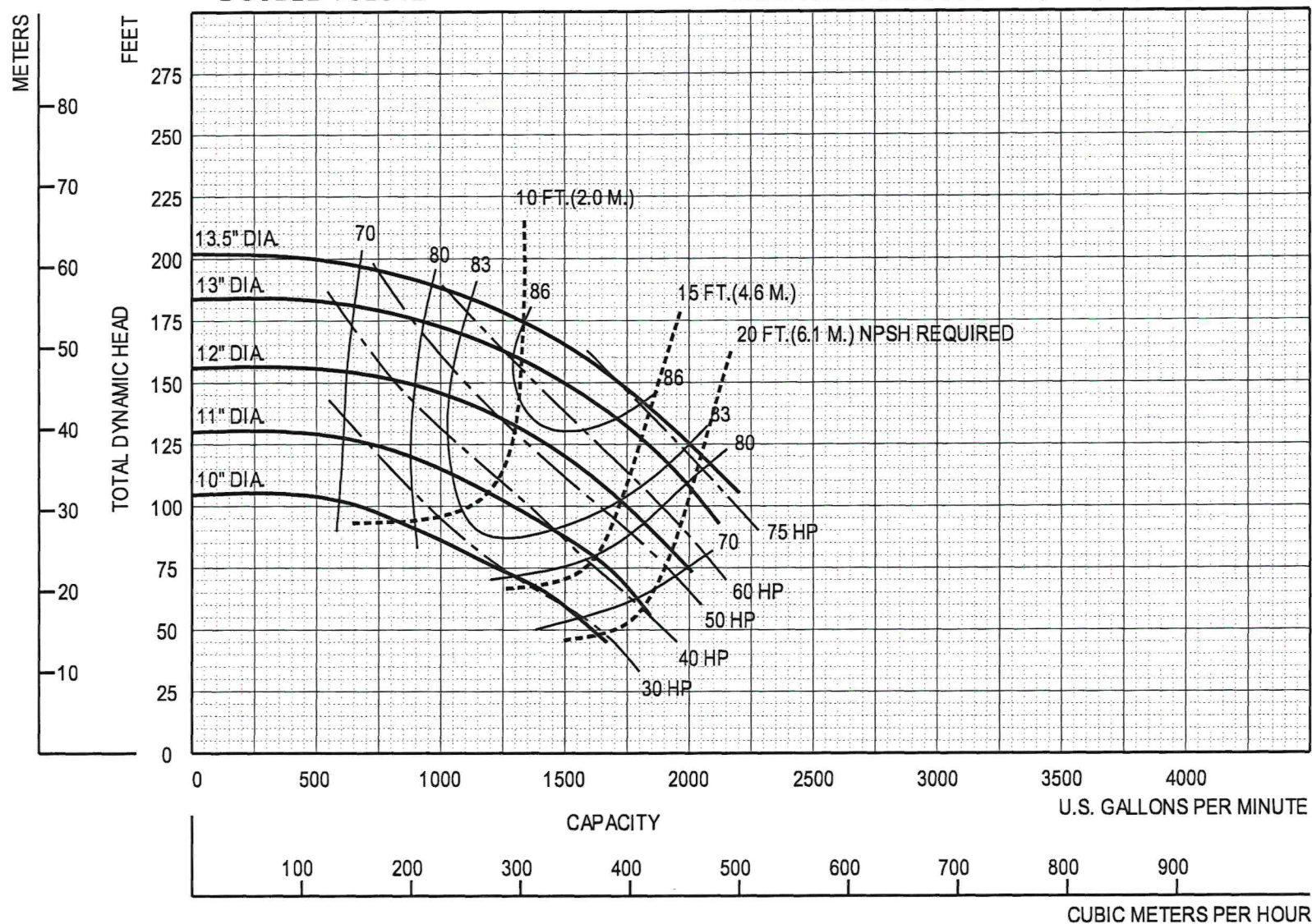
GENERAL

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
1780	VARIOUS	ENCLOSED	1.0"	1654	8"	5"	6

DOUBLE VOLUTE

MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Performances shown are for cool water, close-coupled electric configuration with packing. Other mounting configurations, seal arrangements or liquids may require horsepower and/or performance adjustments.



Cornell Pump Company • Portland, Oregon

5RB - 1800 RPM

12/17/14

PUBLIC NOTICE
Notice to Water Users

THE FOLLOWING APPLICATION HAS BEEN SUBMITTED FOR RESERVED WATER USE TO THE **RICHLAND COUNTY CONSERVAITON DISTRICT**.

Remarks

Important Information:

- During the Public Notice of a new Reserved Water Use Authorization application, objections may be submitted for a 30-day period to the Conservation District using Objection to Application for Reserved Water Use Authorization, Form 107. Objections received outside this period will not be accepted or considered valid.

NAME:	F&M Ranch LLC
APPLICATION NO:	RI-029M
DATE FILED:	3/8/2018
INTERNAL PRIORITY DATE:	7/1/1985
WATER SOURCE:	Missouri River
TOTAL AMOUNT:	124.45 AF
PERIOD OF APPROPRIATION:	4/15/ to 10/15
DIVERSION POINT:	NESESE and NWSESE Section 20, Township 27N Range 57E
DIVERSION MEANS:	2 Existing Pumps
USE:	Irrigation
PLACE OF USE:	SWSW Section 21, SWSE Section 29, NWNW Section 33, all in Township 27N Range 57E.

COMMENTS OR OBJECTIONS to the issuance of an authorization under this application must be received by the Richland County Conservation District ,
2745 W Holly ST, Sidney, MT 59270 (address), 406-433-2103 x 3 (phone number), on or

Before November 12, 2025 (date). Objection forms are available from the Richland County Conservation District.

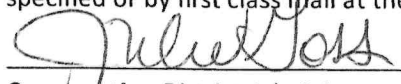
The Conservation District will review this application and any objections at their
November 13, 2025 (date) meeting at 4:00 PM (time), at the district office.

Assistance or questions regarding this application should be directed to the Richland County Conservation District, 2745 W Holly ST, Sidney, MT 59270 , (address), 406-433-2103 (phone number).

PUBLISHED IN THE Roundup (publication name) on October 1, 2025 (date)

CERTIFICATE OF SERVICE – MISSOURI

This certifies a true and correct copy of the public notice for the Conservation District Reserved Water Use Application number RI-029M was served upon all individuals listed below. Notices were served as specified or by first class mail at the addresses shown.


Conservation District Administrator

9-29-2025
Date

MT Department of Environmental Quality DEQ Headquarters ATTN: Water Quality Division 1520 East Sixth Avenue Helena, MT 59601	Bureau of Indian Affairs Rocky Mountain Regional Office ATTN: Water Rights and Resources 2021 4 th Avenue North Billings, MT 59101
US Fish & Wildlife Service Montana Fish and Wildlife Conservation Office 4052 Bridger Canyon Road Bozeman, MT 59715	Bureau of Reclamation Montana Area Office PO Box 30137 Billings, MT 59107-0137
MT Department of Fish, Wildlife and Parks ATTN: Fisheries Division 1420 East Sixth Avenue PO Box 200701 Helena, MT 59620-0701	US Department of the Interior Billings Field Office ATTN: Office of the Solicitor 2021 4 th Avenue North, Suite 112 Billings, MT 59101-1405
MT Department of Fish, Wildlife and Parks Region 6 ATTN: Fisheries Division 1 Airport Road Glasgow, MT 59230	Fort Peck Tribes ATTN: Water Resources Office PO Box 1027 Poplar, MT 59255
MT Department of Natural Resources and Conservation Glasgow Regional Office PO Box 1269 Glasgow, MT 59230-1269	Roosevelt County Conservation District PO Box 517 Culbertson, MT 59218
Montana-Dakota Utilities Co 5181 Southgate Dr. Billings, MT 59101	Copy for Conservation District
US Army Corps of Engineers Fort Peck, MT 59223	Copy for the Applicant: F&M RANCH, %TERRIL RAAUM PO BOX 454 CULBERTSON, MT 59218

INDIVIDUAL NOTICES – sent to all water right owners in the notice area (list names and addresses)	
STAR COULEE RANCH % GARMAN, SHANE & JILL 5013 RD 1006 BAINVILLE, MT 59212	TRAPPER CREEK LAND LLC 6368 DH 1 DR BAINVILLE, MT 59212-9604
DAVID HARDY 35150 COUNTY RD 147 FAIRVIEW, MT 59221-9388	USA (DEPT OF INTERIOR BUREAU OF LAND MGMT) 5001 SOUTHGATE DR BILLINGS, MT 59101-4669
MONTANA STATE BOARD OF LAND COMMISSIONERS FORESTRY AND TRUST LANDS DIVISION PO BOX 201601 HELENA, MT 59620-1601	
GARMAN WATER DEPOT LLC 5013 ROAD 1006 BAINVILLE, MT 59212	
ANDERSON DIAMOND RANCH INC 6224 ROAD 1017 CULBERTSON, MT 59218	
GARTH L HARMON % WAGNER HARMON 6368 DH1 DRIVE BAINVILLE, MT 59212	
GRASS ROCK HILLS LLC 1505 LENHARDT LN BILLINGS, MT 59106-1745	
RIVER OXBOW LLC 6368 DH 1 DR BAINVILLE, MT 59212-9604	

CONSERVATION DISTRICT CRITERIA ASSESSMENT REVIEW CHECKLIST

When to use this form:

- This form is used by the CD and/or the CD Technical Advisor to analyze the application information and document on whether the applicant had submitted information to support issuance of a reserved water right.

CD Water Reservation No: RI-029

1. Is the reserved water available in the source of supply at the intended point of diversion?

Yes. Using 25 years of data at USGS stream gage #06185500 Missouri River Near Culbertson MT then deducting the water rights between the diversion and the gage (approximately 5.4 miles, water rights on supplemental document titled Criteria Assessment Form: Physical Availability.

2. Will the proposed use adversely affect senior water rights?

No adverse effects determined by deducting senior water rights 5 miles downstream of diversion from the physically available amount at the diversion. See supplemental document titled Criteria Assessment Form: Legal Availability and Adverse Effect.

3. Is the proposed project/system adequate? (i.e.: diversion, impoundment, conveyance, or delivery facilities)

Yes. This is an existing operational system and the applicant is applying for reserved water to cover portions of places of use omitted from private or State (Trust Lands) water rights per adjudication proceeding agreement.

4. Is the proposed use compatible with the Conservation District's Annual Work Plan, local and regional planning efforts?

I have not reviewed the Annual Work Plan for Richland County CD but the purpose of irrigation is within the objective of the water reservation for agricultural/economic development.

5. Does the proposed use meet the objectives of the reservation?

Yes. Irrigation qualifies as a key purpose intended for the reservation.

6. Does the applicant agree to obtain all applicable local, state, or federal permits, authorizations, approvals, or licenses?

Yes, permission from State Lands was provided in writing since some of the acres in this application include public lands managed by the DNRC.

7. Is the proposed use of water beneficial?

Yes. Irrigation is a beneficial use of water. MCA 85-2-102(5a).

8. Does the application demonstrate adequate and reasonable soil and water conservation measures?

Yes. Per soil analysis/mapping, no known cause for mitigation was determined. Water quality is monitored by the Wyoming-Montana Water Science Center in collaboration with the Assiniboine and Sioux Rural Water Supply system (ASRWSS) for public consumption concerns. No known concerns for irrigation purposes. The nearest water quality monitoring is conducted near Macon (Wolf Point).

9. Does the applicant have possessory interest, or written consent of the entity with possessory interest, in the property where the water is to be put to use?

Yes, the applicant is the property owner of a portion of the place of use and has obtained written permission from State Lands for portions located on public property.

Teresa E. Olson

Reviewer Printed Name

11-4-2025

Date

USGS Stream Gage #06185500 Missouri River Near Culbertson MT

Gage Approximately 5.4 miles upstream of Diversion.

	Apr	May	Jun	Jul	Aug	Sep	Oct
1998	7,196	9,447	10,270	11,500	10,510	9,437	8,455
1999	11,260	10,750	10,640	9,960	9,719	7,206	5,607
2000	6,668	9,306	10,030	10,160	8,753	6,991	5,800
2001	6,041	6,506	7,335	6,875	6,194	4,623	4,229
2002	4,955	7,078	9,598	9,087	9,633	7,630	5,211
2003	7,979	10,310	8,965	7,719	6,838	6,439	4,611
2004	7,897	11,990	8,276	7,317	7,150	6,481	4,435
2005	5,533	5,553	7,006	6,389	6,151	5,328	4,084
2006	7,768	6,641	7,678	7,447	7,711	7,068	5,805
2007	4,762	7,319	9,135	6,768	6,937	5,554	4,097
2008	6,027	7,723	7,837	6,550	6,680	6,577	4,455
2009	6,569	6,993	5,950	6,520	6,964	6,000	4,796
2010	5,196	8,375	9,363	7,504	6,438	7,052	6,820
2011	23,150	24,920	73,890	50,180	27,910	24,300	10,220
2012	7,341	9,746	11,420	10,990	10,810	10,470	10,340
2013	11,120	9,410	16,370	9,405	8,601	7,836	6,024
2014	9,078	9,574	9,718	8,449	9,423	9,223	6,121
2015	7,857	8,194	8,979	8,386	8,348	7,034	5,532
2016	7,244	10,870	10,020	9,882	8,973	7,562	9,261
2017	8,050	8,413	9,332	9,483	9,610	8,089	6,511
2018	14,660	19,070	21,140	18,490	16,300	15,400	12,510
2019	12,990	9,304	9,547	15,050	15,770	17,130	16,370
2020	13,290	11,580	11,200	11,200	9,639	8,964	6,222
2021	7,748	8,656	9,666	9,159	9,347	7,929	5,382
2022	6,240	7,595	8,315	7,605	7,501	7,674	5,024
2023	14,030	9,209	11,340	9,063	8,187	7,528	5,843
Median CFS	7,758	9,257	9,573	9,075	8,677	7,545	5,803
# of Days	30	31	30	31	31	30	31

Source Supply							
AF/Month	461,523	569,025	569,468	557,867	533,401	448,852	356,697

1 CFS=1.983 AF/day

AF/Month: median of the mean monthly flow in cfs x 1.983 x # days in month = AF/Month

Criteria Assessment Form: Water Rights used to determine Physical Availability

Gaging Station: USGS #06185500 Missouri River near Culbertson MT

Existing Water Rights between Proposed Point of Diversion (POD) and Gaging Station

Gage is 5.4 miles upstream from the POD

Water Right	Purpose	Period of Use	Flow Rate (CFS)	Max Volume (AF)
40S 184738 00	IRRIGATION	04/15 to 10/15	5.10	804
40S 10026 00	IRRIGATION	04/15 to 10/15	3.90	520
40S 101309 00	IRRIGATION	05/01 to 10/01	2.23	324
40S 11975 00	IRRIGATION	04/15 to 10/19	2.90	1038 *
			14.12	2686

*Where Max Volume was not provided, 2.69 AF/Acre was used per DNRC Water Use in ARM 36.12.115

Criteria Assessment Form: Water Rights used to determine Legal Availability & Adverse Effect

Senior water rights within area of impact (area of impact is 5 miles downstream of the diversion)

Water Right	Purpose	Period of Use	Flow Rate (CFS)	Volume (AF)
40S 186738 00	STOCK	01/01 to 12/31	13.37	21.53
40S 186732 00	STOCK	01/01 to 12/31	11.79	18.98
40S 30132248	STOCK	01/01 to 12/31	5.28	8.50
40S 135791 00	STOCK	01/01 to 12/31	3.21	5.17
40S 135792 00	STOCK	01/01 to 12/31	2.45	3.94
40S 172341 00	STOCK	01/01 to 12/31	10.56	17.00
40S 30142668	STOCK	01/01 to 12/31	0.02	0.03
40S 30142622	STOCK	01/01 to 12/31	0.76	1.22
40S 137594 00	STOCK	01/01 to 12/31	0.59	0.95
40S 137592 00	STOCK	01/01 to 12/31	0.27	0.44
40S 137593 00	STOCK	01/01 to 12/31	0.40	0.65
40S 137576 00	STOCK	01/01 to 12/31	0.40	0.65
40S 171255 00	IRRIGATION	04/15 to 10/19	15.60	2023
40S 12708 00	IRRIGATION	04/15 to 11/15	8.02	1388
40S 30062765	IRRIGATION	04/01 to 10/15	1.52	182
			74.25	3672.07

*2.69 AF/Acre per ARM 36.12.115

*Stock claims with no flow rate: calculated 15GPD and 1 GPM = 1.61 AF/year thus (.017xAU)/1.61

stock claims with no volume: calculated .017 x AUs (=15 GPD)

Water Reservation: water must be kept in stream

40S 30017671

FISHERY

01/01 to 12/31

Flow Rate (CFS)

5178

Volume (AF)

3748500

F&M Ranch Reserved Water Application RI-029
Criteria Assessment Form: Physical Availability
USGS Stream Gage #06185500 Missouri River Near Culbertson MT

Gage Approximately 5.4 miles upstream of Diversion.

Physical Availability Flow Rate (CFS)

MONTH	Median of Mean Monthly Disharge at Culbertson Gage 1998-2023	Subtracting Water Rights (CFS) between the Diversion and the Gage	Flow Physically Available at Diversion (CFS)
April	7,758	12	7,746
May	9,257	14	9,242
June	9,573	14	9,558
July	9,075	14	9,061
August	8,677	14	8,663
September	7,545	14	7,531
October	5,803	14	5,789

Median of the mean monthly volume calculated by multiplying the median of the mean monthly flow x 1.983 x number of days in the month

1 CFS = 1.983 AF/day

FWP Reservation 40S 300617671 requires a minimum instream flow of 5,178 CFS

Physical Availability Volume (AF)

MONTH	Median of Mean Monthly Volume at Culbertson Gage 1998-2023	Subtracting Water Rights between the Diversion and the Gage	Volume Physically Available at Diversion (AF)
April	461,523	382	461,281
May	569,025	459	568,710
June	569,468	445	569,163
July	557,867	459	557,552
August	533,401	459	533,086
September	448,852	445	448,547
October	356,697	459	356,382

FWP Reservation 40S 300617671 requires a minimum average instream volume of 312,375 AF/Month

F&M Ranch LLC Reserved Water Application RI-029

Criteria Assessment Form: Legal Availability and Adverse Effect

Legal Availability Flow Rate (CFS)

Month	Flow Physically Available	Existing Legal Demands	FWP Instream Flow Reservation	Flow Legally Available
April	7,746	74	5,178	2,494
May	9,242	74	5,178	3,990
June	9,558	74	5,178	4,306
July	9,061	74	5,178	3,809
August	8,663	74	5,178	3,411
September	7,531	74	5,178	2,279
October	5,789	74	5,178	537

Legal Availability Volume (AF)

Month	Volume Physically Available	Existing Legal Demands	FWP Instream Flow Reservation	Volume Legally Available
April	461,281	553	308,096	152,632
May	568,710	572	318,366	249,772
June	569,163	553	308,096	260,514
July	557,552	572	318,366	238,614
August	533,086	572	318,366	214,148
September	448,547	553	308,096	139,898
October	356,382	572	318,366	37,444

Legal Availability (area of potential impact) was calculated by subtracting existing legal demands 5 miles below the point of diversion, and the MT Department of Fish, Wildlife and Parks (FWP) instream flow reservation (40S 30017671)

The least amount of flow legally available in any month during the period of diversion is 537 CFS in October and the applicant is not applying for any additional flow rate. The least amount of volume legally available is 37,444 AF in October, the applicant is applying for 124.45 AF total annually. No adverse effect on other users is found.

CONSERVATION DISTRICT RESERVED WATER USE AUTHORIZATION ✓

§85-2-316, MCA

Form No. 102 (Revised 07/2024)

When to use this form:

This form is for the issuance of a Reserved Water Use Authorization.

Conservation District Name: Richland County Conservation DistrictCD Water Reservation No: 8450000

Upon determination that the criteria for issuance of a reserved water use authorization have been met, this Authorization is hereby issued to:

1. Applicant Name: F & M Ranch LLCMailing Address: PO Box 454 City Culbertson State MT Zip 59270Phone Numbers: 406-787-5794 Cell 406-787-5212Email Address: trauma1@yahoo.com2. Authorization Number: RI-029M Internal Priority Date: 7/1/19853. Source of Water Supply: Missouri River

A tributary of _____

4. Total Amount: _____ up to 124.45 acre-ft per Annum5. Period of Use: April 1 Month/Day to Oct 19 Month/Day

6. Point of Diversion:

LOT	¼	¼	¼	SEC	TWP N/S	RGE E/W	COUNTY
NESESE				20	27N	57E	RICHLAND
NWSESE				20	27N	57E	RICHLAND

7. Place of Use:

N = New S = Supplemental									
ACRES	LOT	¼	¼	¼	SEC	TWP N/S	RGE E/W	COUNTY	N/S
2.5	3	SW	SW	SW	21	27N	57E	RICHLAND	N
32			SW	SE	29	27N	57E	RICHLAND	N
31			NW	NW	33	27N	57E	RICHLAND	N

8. Means of Diversion: PUMP9. Means of Flow Measurement: FLOW METER

10. Standard and Special Terms, Conditions, Restrictions, and Limitations:

STANDARD TERMS:

Completion:

The diversion and distribution work for this use shall be completed, and water shall be applied to a beneficial use as specified above, on or before ____NOVEMBER 1_____, 20 __28__, or within any authorized extension of time. The Notice of Completion of Water Development, Form 106, shall be filed on or before __NOVEMBER 1_____, 20 _28_____.

Compliance with Board and Conservation District Rules, Regulations, and Requirements:

Authorization is subject to the order, rules, regulations, and requirements governing the water reservation and the laws of the State of Montana. Further, this Authorization is subject to the administrative rules, regulations, and procedures adopted by the Conservation District governing the water reservations, which by the reference is made a condition of the Authorization.

Control:

The Conservation District has exclusive control over the reservation by the Board. The authorization holder receives no right, title, ownership, control, or interest in the water reservation.

Revocations:

Failure to comply with the provisions of the Authorization including submission of the annual water user report, may result in revocation of the Authorization.

Senior Rights:

This Authorization is subject to all prior existing water rights in the source of supply. Further, this Authorization is subject to any final determination of existing water rights, as provided by Montana law.

Transfer of Authorization:

Upon a change in ownership of all or any portion of land associated with this Authorization, the person receiving the interest shall file a Notice of Transfer of Reserved Water Use Authorization, Form 109, with the Conservation District.

Water Status Annual Report

Notify the Conservation District whether any water had been used under the authorization or not. Complete and submit Water User Annual Status Report, Form 103, by November 1 annually. If the infrastructure for the use of the water have not been completed, give details of progress toward completion and if an extension of time is required, fill out and submit Application for Extension of Time, Form 108, to the Conservation District.

SPECIAL TERMS:

This Authorization is subject to the type of water use measuring device or water use estimation technique required by the Conservation District. The water user shall maintain the measuring device, so it always operates properly and measures flow rate and volume accurately. The water user shall keep written records of the flow rate and volume of water used. Records shall be submitted by November 1 of each year and upon request at

other times during the year. Failure to submit the *Water Use Annual Status Report* (Form 103) may be cause for revocation of this Authorization. The annual status report must be sent to the Conservation District Office.

APPROVAL:

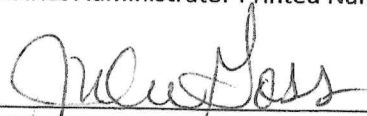
SHAWN CONRADSEN
Chairman Printed Name


Chairman Signature

11-21-2025
Date

11-21-2025
Date

JULIE GOSS
District Administrator Printed Name


District Administrator Signature

11-21-2025
Date

11-21-2025
Date

APPLICATION FOR RESERVED WATER USE
RICHLAND COUNTY CONSERVATION DISTRICT

9/96

Application No. _____		For District Use Only	
Date Received <u>3-8-2018</u>		Time <u>9:50 AM</u>	
Fee Received \$ <u>25.00</u>	Received By <u>Jay</u>		

Please Print or Type:

- Applicant Name F + M Ranch
 Mailing Address Po Box 454
 City or Town Culbertson State MT Zip 59218
 Home Phone (406) 787 5294 Other Phone () 787 5212
- Applying for (check one): ☐ New Irrigation, ☒ Supplemental, ☐ Both
- Source of Water: Missouri River
- Describe Irrigation System: Pivot + wheel line
- Crops to be Grown: Wheat Corn Sorghum Alfalfa
 Point of Diversion Description (to the nearest 10 acres): County Richland
 government lot _____, NE 1/4, SE 1/4, SE 1/4, sec 20, twp 27 N/S, rge 57 E/W
- Point of Discharge Description (to the nearest 10 acres): County Richland
 government lot _____, SE 1/4, NE 1/4, SE 1/4, sec 29, twp 27 N/S, rge 57 E/W
- Place of Use Description: County Richland, New (n) or Supplemental (s)
 acres 20, gvt. lot _____, N 1/2 SW 1/4, SE 1/4, sec 29, twp 27 N/S, rge 57 E/W, n/s
 acres 18, gvt. lot _____, E 1/2 NW 1/4, NW 1/4, sec 18, twp 18 N/S, rge 57 E/W, n/s
 TOTAL acres 50 (addendum sheet is attached if more room is needed for place of use)
- Volume Requested: _____ acre-feet, Volume of Discharge: _____ acre-feet
- Flow Rate Requested: _____ cubic ft. per second (cfs), or 1800 gallons per minute (gpm)
- Diversion Means: ☒ Pump: Type & Power Electric, ☐ Other _____
- Conveyance Means: ☒ Pipeline, Other TO PIVOT
- Period of Use: Month/Day April 15 to Month/Day OCT - 15
- Reserved Water Rights Projects: Is this a project that was originally included in the Conservation District water reservation application? ☐ Yes ☒ No

15. Location Map: A map showing the following must accompany this application:

- | | |
|----------------------------------|--|
| A. Township and range ✓ | D. Project location and general layout ✓ |
| B. Section numbers and corners ✓ | E. Points of diversion and discharge ✓ |
| C. Scale of map in inches ✓ | F. Place of use ✓ |

NOTE: Please be sure to attach an accurate map. Lack of an accurate map results in an incomplete application. The application will be returned for completion. A copy of an ASCS aerial photo or a USGS topographic map is required. Please use a dark pencil or pen when writing on the map. Assistance is available from the District or the Resource Development Bureau, DNRC in completing these forms.

16. Soils Map: Include a copy of the soils map and suitability evaluation for your project. Indicate on the map the location of the project, point(s) of diversion, and point(s) of discharge.

17. Engineering Details: All available engineering data must be submitted with this application:

- A. General layout plans for point of diversion structures
- B. Placement plans of pumping plant/diversion structure
- C. Control structures design and placement NA
- D. Typical cross-section for dikes NA
- E. Conveyance and delivery ditch designs NA
- F. Reservoir cross-section and capacities NA
- G. Structural tables NA
- H. Pipeline designs ✓
- I. Yardage figures for land leveling and design grid NA
- J. Method of water use measurement
- K. Water availability and water quality evaluation
- L. Other information applicable to the project as deemed necessary by the District

18. Project Completion Date: 3-8-18

19. The Reserved Water Development Manual which governs Reserved Water Use Authorization for the Conservation District is on file in the district office and available for review.

20. **IMPORTANT NOTICE:** No person may appropriate water or commence construction on any project facilities prior to the approval of the project by the District and the receipt of a Reserved Water Use Authorization!

21. The applicant certifies that the statements above and documents attached are to the best of his/her knowledge true and correct.

Applicant's Signature

Date

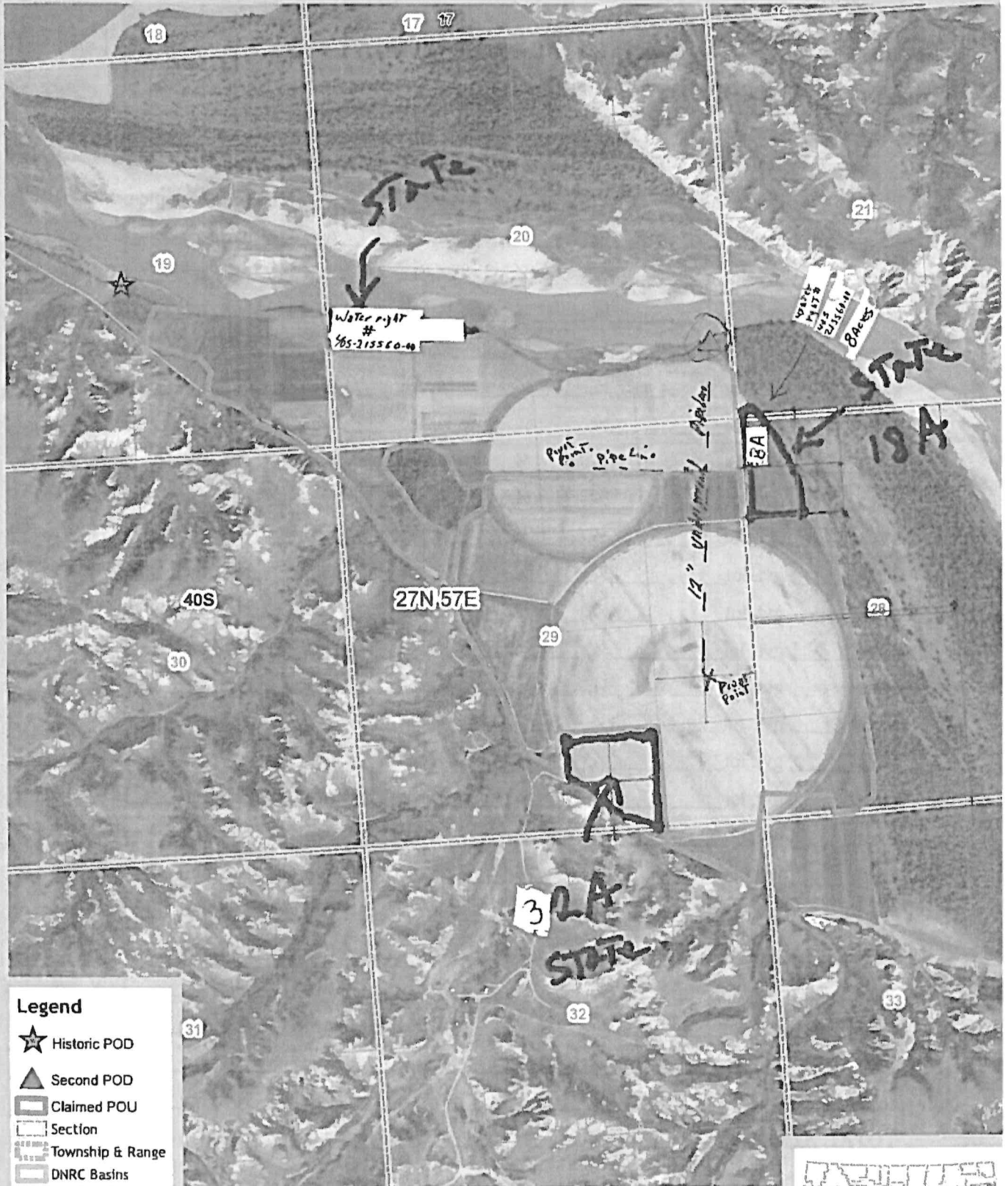
Prepared By:

TERRIL RAUM

Date

Submit Application and Fee to: **Richland County Conservation District,
HCR 89, Box 5165A, Sidney, MT 59270**

F & M Ranch LLC Change 406-30110600



Legend

- ★ Historic POD
- ▲ Second POD
- ▭ Claimed POU
- ▭ Section
- ▭ Township & Range
- ▭ DNRC Basins



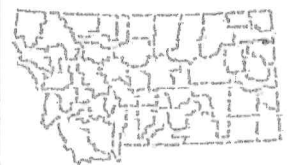
1:20,000

0 0.1 0.2 0.4 Miles

Map Created: 7/19/2017 By Todd Netto



Service Layer Credits: Montana State Library
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



STATE OF MONTANA
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
1424 9TH AVENUE P.O.BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number: 40S 215560-00 STATEMENT OF CLAIM

Version: 2 - POST DECREE

Version Status: ACTIVE

Late Claim: B

Owners: MONTANA, STATE OF BOARD OF LAND COMMISSIONERS
TRUST LAND MANAGEMENT DIVISION
PO BOX 201601
HELENA, MT 59620-1601

Priority Date: JUNE 18, 1901

Enforceable Priority Date: JUNE 30, 1973

CLAIM FILED LATE 06/28/96 . AS MANDATED BY SECTION 85-2-221(3), MCA, THIS CLAIM IS SUBORDINATE, AND THEREFORE JUNIOR, TO ALL INDIAN AND FEDERAL RESERVED WATER RIGHTS AND ALL VALID TIMELY FILED CLAIMS BASED ON STATE LAW.

Type of Historical Right: USE

Purpose (use): IRRIGATION

Irrigation Type: FLOOD

Maximum Flow Rate: 1.44 CFS

THE FLOW RATE OF THIS WATER RIGHT HAS BEEN REDUCED TO THE 17 GPM PER ACRE GUIDELINE. THE FLOW RATE MAY BE CONTESTED BY PROPER OBJECTION.

Maximum Volume: THE TOTAL VOLUME OF THIS WATER RIGHT SHALL NOT EXCEED THE AMOUNT PUT TO HISTORICAL AND BENEFICIAL USE.

Climatic Area: 2 - MODERATELY HIGH

Maximum Acres: 38.00

Source Name: MISSOURI RIVER

Source Type: SURFACE WATER

Point of Diversion and Means of Diversion:

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1		NENESW	19	27N	57E	RICHLAND

Period of Diversion: APRIL 1 TO NOVEMBER 4

Diversion Means: PUMP

Period of Use: APRIL 1 to NOVEMBER 4

Place of Use:

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1	2.00	5	SE	20	27N	57E	RICHLAND
2	4.00	6	SE	20	27N	57E	RICHLAND
3	8.00		W2NWNW	28	27N	57E	RICHLAND
4	11.00	7	SW	20	27N	57E	RICHLAND
5	13.00	8	SW	20	27N	57E	RICHLAND
Total:	38.00						

18A

Remarks:

STARTING IN 2008, PERIOD OF DIVERSION WAS ADDED TO MOST CLAIM ABSTRACTS, INCLUDING THIS ONE.

STATE OF MONTANA
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
1424 9TH AVENUE P O BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number: 40S 171255-00 STATEMENT OF CLAIM
Version: 3 - CHANGE AUTHORIZATION
Version Status: ACTIVE

THIS AUTHORIZATION IS LIMITED TO THE AMOUNT OF THE HISTORIC USE
RECOGNIZED BY THE DEPARTMENT IN THIS PROCEEDING AS SUBJECT TO
CHANGE, AND WILL THEREAFTER NOT EXCEED THAT AMOUNT. IF THE HISTORIC
USE IS REDUCED UNDER ADJUDICATION PROCEEDINGS PURSUANT TO TITLE 85,
CHAPTER 2, PART 2, MCA, THIS AUTHORIZATION WILL BE LIMITED TO A LESSER
AMOUNT.

Owners: F & M RANCH LLC
602 E COOPER AVE SUITE 202
ASPEN, CO 81611

Priority Date: JULY 30, 1960

Enforceable Priority Date: JULY 30, 1960

Purpose (use): IRRIGATION

Irrigation Type: SPRINKLER/FLOOD

Maximum Flow Rate: 7,000.00 GPM

Maximum Volume: THE TOTAL VOLUME OF THIS WATER RIGHT SHALL NOT EXCEED THE AMOUNT
PUT TO HISTORICAL AND BENEFICIAL USE.

Climatic Area: 2 - MODERATELY HIGH

Maximum Acres: 752.00

Source Name: MISSOURI RIVER

Source Type: SURFACE WATER

Point of Diversion and Means of Diversion:

ID	Govt Lot	Qtr Sec	Sec	Twp	Rge	County
1		NENESW	19	27N	57E	RICHLAND

Period of Diversion: APRIL 15 TO OCTOBER 19

Diversion Means: PUMP

2		NESESE	20	27N	57E	RICHLAND
---	--	--------	----	-----	-----	----------

Period of Diversion: APRIL 15 TO OCTOBER 19

Diversion Means: PUMP

Period of Use: APRIL 15 to OCTOBER 19

Place of Use:

ID	Acres	Govt Lot	Qtr Sec	Sec	Twp	Rge	County
1	66.00		SE	19	27N	57E	RICHLAND
2	37.00		SESW	20	27N	57E	RICHLAND
3	58.00		S2SE	20	27N	57E	RICHLAND
4	35.00		SWNW	28	27N	57E	RICHLAND
5	75.00		W2SW	28	27N	57E	RICHLAND
6	116.00		NW	29	27N	57E	RICHLAND
7	160.00		NE	29	27N	57E	RICHLAND
8	80.00		E2SE	29	27N	57E	RICHLAND
9	40.00		NWSE	29	27N	57E	RICHLAND
10	24.00		E2SW	29	27N	57E	RICHLAND
11	16.00		NENE	32	27N	57E	RICHLAND
12	45.00		W2SW	20	27N	57E	RICHLAND
Total:	752.00						

Geocodes/Valid: 27-3933-19-4-01-01-0000 - Y 27-3933-20-3-03-01-0000 - Y
27-3933-28-3-02-01-0000 - Y 27-3933-29-1-01-01-0000 - Y
27-3933-29-2-01-01-0000 - Y 27-3933-32-1-01-01-0000 - Y

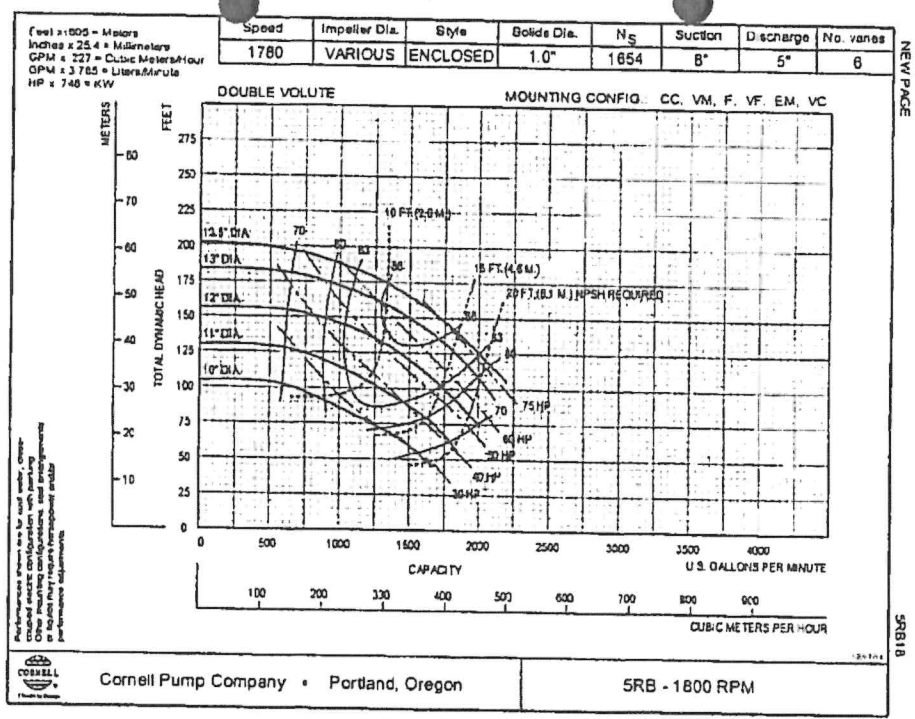
Remarks:

THE FOLLOWING ELEMENTS WERE AMENDED BY THE CLAIMANT ON 11/15/96: PLACE OF USE, MAXIMUM
ACRES.



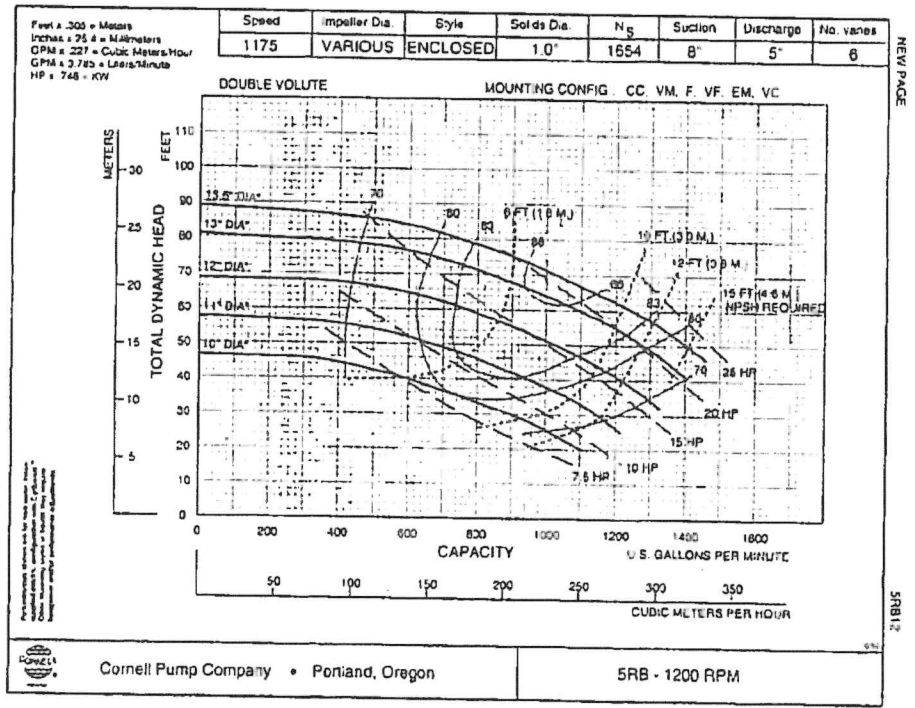
5RB - 1800 RPM

SEE TECH SECTION FOR MAXIMUM OPERATING RATINGS



5RB - 1200 RPM

SEE TECH SECTION FOR MAXIMUM OPERATING RATINGS

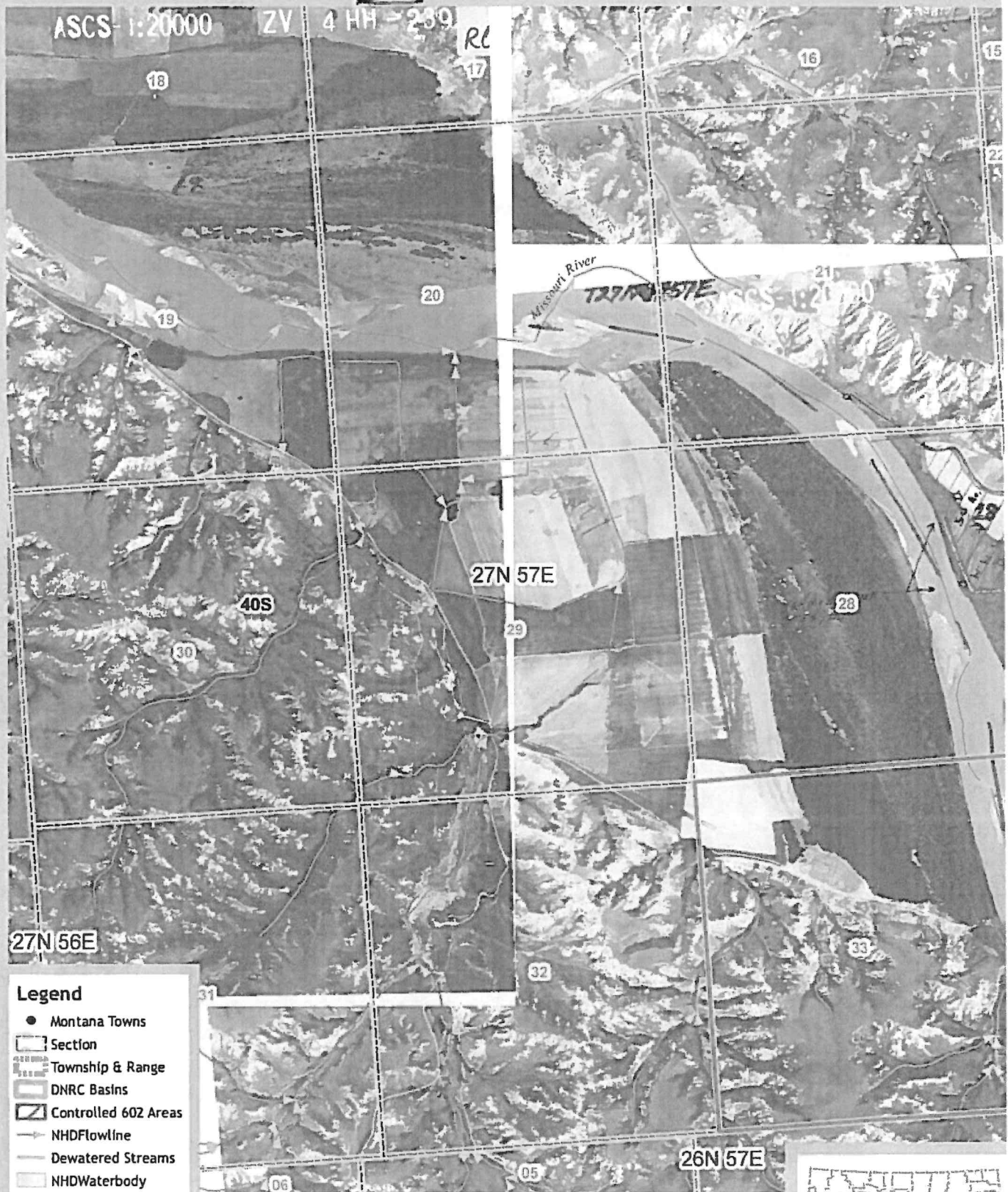


App. Number RI-029 M

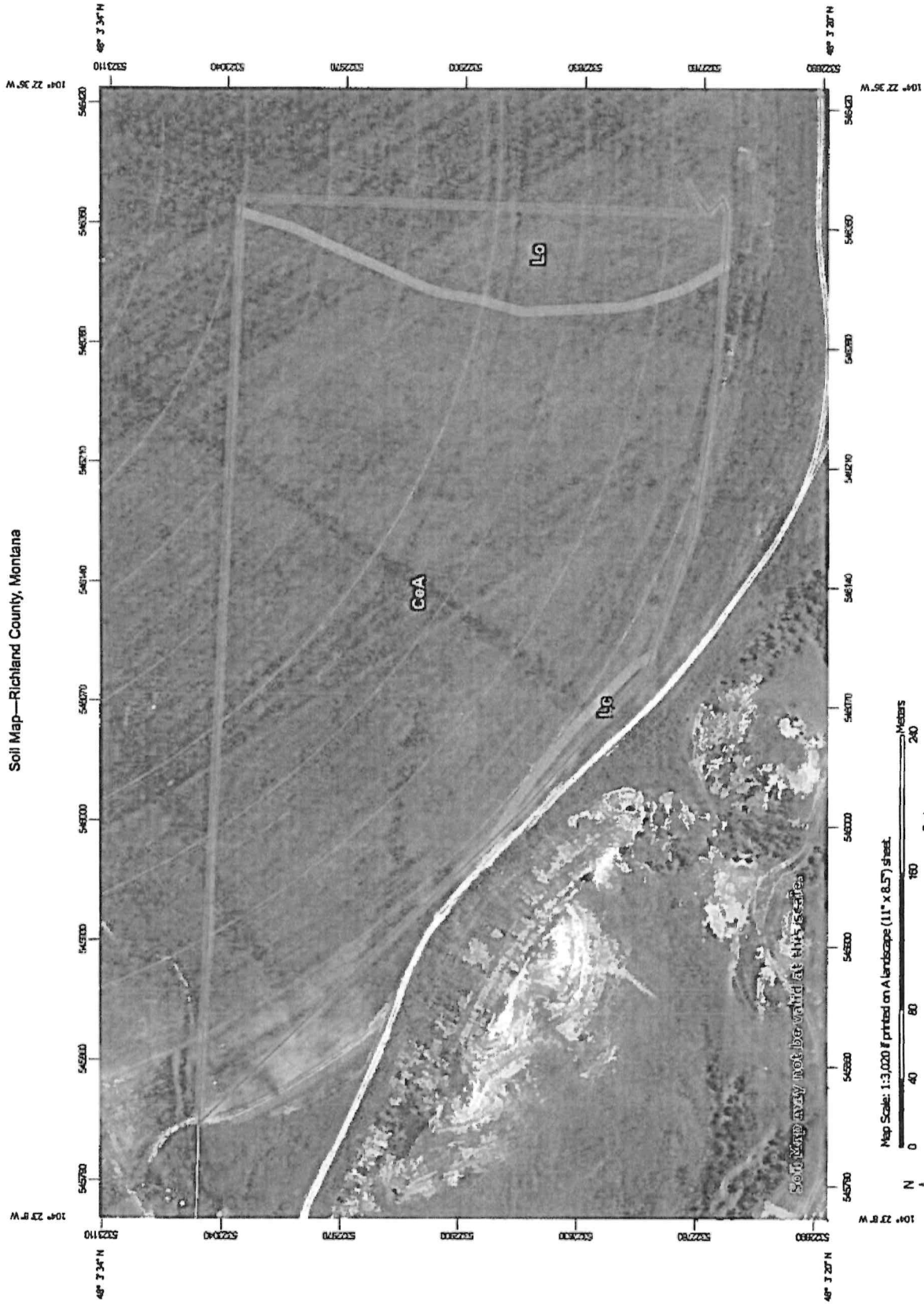
Soil Features Affecting

Symbol	Soil Name & Slope	Cap. Class	Ag. Drainage	Land Level	Irrigation
CeA	Cherry Silty Clay Loam	2e	Well Drained	Deep – Moderate Soil	High – Moderate available water capacity
HaA	Havrelon Silt Loam	2e	Well drained	Deep Soil	High available water capacity
Lo	Lohler Silty Clay	2e	Well drained	Deep Soil	High available water capacity

F & M Ranch LLC WRS (7/12/1967)



Soil Map—Richland County, Montana



Natural Resources
Conservation Service

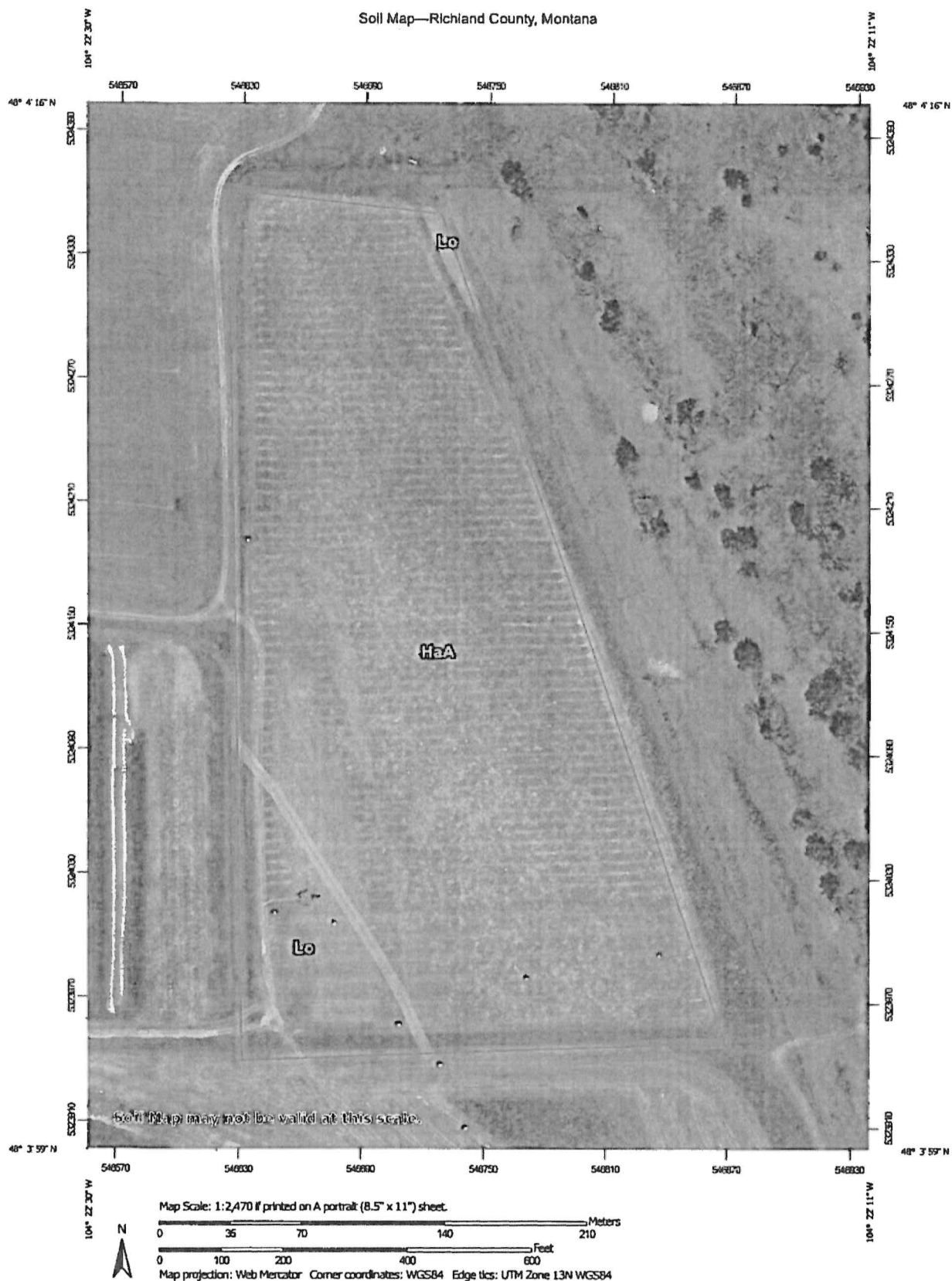
Web Soil Survey
National Cooperative Soil Survey

3/7/2018
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Cherry silty clay loam, 0 to 2 percent slopes	23.9	87.8%
Lc	Lambert-Badland complex	0.3	0.9%
Lo	Lohler silty clay loam	3.1	11.3%
Totals for Area of Interest		27.3	100.0%

Soil Map—Richland County, Montana



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/7/2018
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HaA	Havrelo silt loam, 0 to 1 percent slopes	15.5	89.0%
Lo	Lohler silty clay loam	1.9	11.0%
Totals for Area of Interest		17.4	100.0%



IR.1.E We put in 2 new pivots & we need a pump to service them.

IR3A When installed in 1960 all was flooded. In 1980 we put in 309A pivot in mostly sec 29 (see map) Pumping out of canal. In 2008 we put in another pivot so we ran a Pipe line to river to service both pivots & a flooded field in SE, SE Sect 20 approx 35A.

IR3B. The pivots are turned on when needed putting down 2 to 3" of water at a time. Generally the flood is ran 3 times using approx 6" per time as needed.

IR3D New 60 HP Pump
Capacity is determined by curve of mtr.

IR3F 309A pivot 1980 105A pivot 2008
Field Level 1983

1R4A With The old pump + New
Pump running we will NOT exceed
our 7000 GPM use.

1R4B we have used this water since
1960 + No one complained

1R4C we use it every year.

1R5D 60 HP float pump with a
60' 10" pipe to hook to underground
pipe line 12"

1R6A = new 60 HP pump approx 1800 GPM

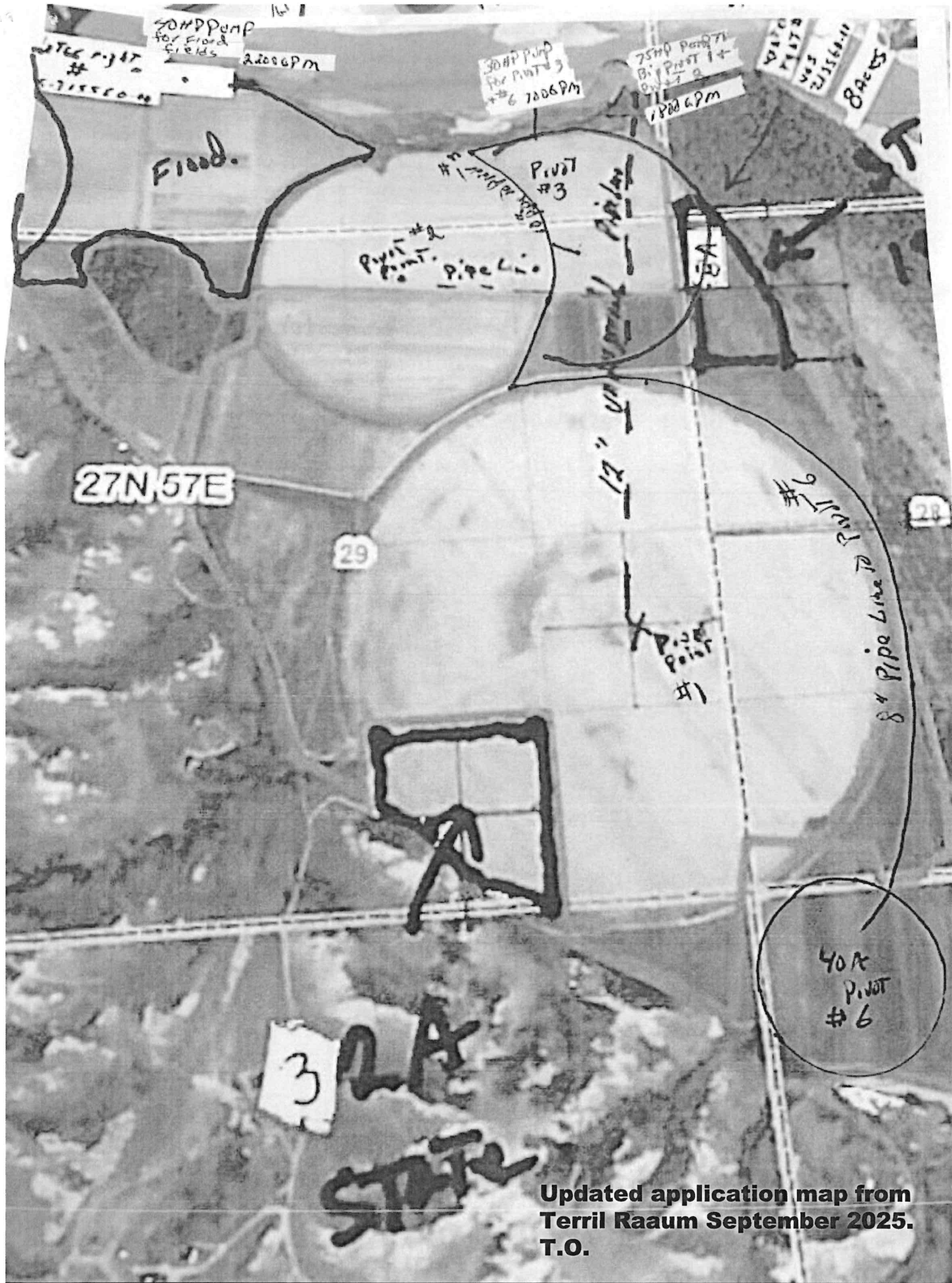
**RICHLAND COUNTY
CONSERVATION DISTRICT**
2745 W Holly ST
Sidney, MT 59270

DATE	INVOICE #
3/8/2018	2814

F&M Ranch

FED ID #81-6001636		P.O. NO.	TERMS	PROJECT
QUANTITY	DESCRIPTION	RATE	AMOUNT	
1	Reserved Water application fee	25.00	25.00	

Phone #	Fax #	E-mail
406-433-2103 x 101	406-433-7351	julie.goss@mt.nacdnet.net



Updated application map from
Terril Raaum September 2025.
T.O.

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

March 4th, 2026

Richland County Conservation District
2745 West Holly St.
Sidney, MT 59270

Subject: Completed Technical Analyses Report for Conservation District Water
Reservation Based Change Preapplication No. 40S 30173545

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Change Preapplication No. 40S 30173545 based on the information provided in your Preapplication Meeting Form accepted by the Department on January 26th, 2026. The technical analyses can be found in the attached report.

This Technical Analyses Report **IS**: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use this data to analyze the criteria in §85-2-316, 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 (§85-2-316, MCA).

You have 180 days to submit the Conservation District Application to Change Water Reservation Application Form 606-CD considering the information provided in the technical analyses and Preapplication Meeting Form. If the Application Form is not submitted to the Havre Regional Office by August 31st, 2026, 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)).



Please let me know if you have any questions.

Best,

Kailee Ingalls



Kailee Ingalls | Water Resource Specialist
Water Resources Division, Havre Regional Office
Montana Department of Natural Resources and Conservation
Physical| 210 6th Ave | Havre MT 59501
Mailing| PO Box 1828 | Havre MT 59501
DESK: 406-808-7126 **EMAIL:** kailee.ingalls@mt.gov

CC: Mark Elison <marke@hydrosi.com>
2912 7th Ave. N.
Billings, MT 59101-0906





Conservation District Application to Change Water Reservation Technical Analyses Report

Department of Natural Resources and Conservation (DNRC or Department)

Water Resources Division

Kailee Ingalls, Water Resource Specialist, Havre Regional Office

Application No.	40S 30173545	Proposed Point of Diversion	NWSESE & NESESE, Section 20, T27N, R57E, Richland County.
Applicant	Richland County Conservation District		

Overview

This report 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 §85-2-311, Montana Code Annotated (MCA). This report was completed by regional office staff.

This Conservation District Application to Change Water Reservation Technical Analyses Report contains the following sections:

Overview	1
1.0 Application Details	2
2.0 Historical Use Analysis.....	3
3.0 Analysis of Impacted Surface Water Sources.....	4
3.1 Summary of Proposed Use.....	4
3.2 Source Description	4
3.3 Method of Estimation.....	4
3.4 Monthly Flow Rate and Volume.....	4
4.0 Area of Potential Impact Analysis	6
Review	7
References.....	7
Appendix A: Water Rights within the Area of Potential Impact	8



1.0 Application Details

The Applicant proposed to add points of diversion and places of use to the Richland County Conservation District Water Reservation (40S 84500-00) that were not included in the original water reservation public notice. The authorization is to include portions of existing center pivots that have been omitted from the F&M Ranch Statement of Claim 40S 171255 00 and the Montana State Board of Land Commissioners Statement of Claim 40S 215560 00. The Applicant proposes to divert water from the Missouri River, by means of two pumps, from April 1 through October 19 for 124.45 AF, from a point in the NWSESE and a point in the NESESE, Section 20, T27N, R57E, Richland County, for Sprinkler Irrigation use from April 1 through October 19. No new flow rate is being proposed. A total of 65.5 AC is proposed. The proposed place of use includes three pivots located in the following legal descriptions:

Table 1: Proposed Place of Use							
Pivot Number (See Figure 1)	Acres	Quarter Section	Section	Township	Range	County	Ownership
"Pivot 2"	2.5	SWSWSW	21	27N	57E	Richland	State of MT
"Pivot 1"	32	SWSE	29	27N	57E	Richland	State of MT
"Pivot 6"	31	NWNW	33	27N	57E	Richland	F&M Ranch

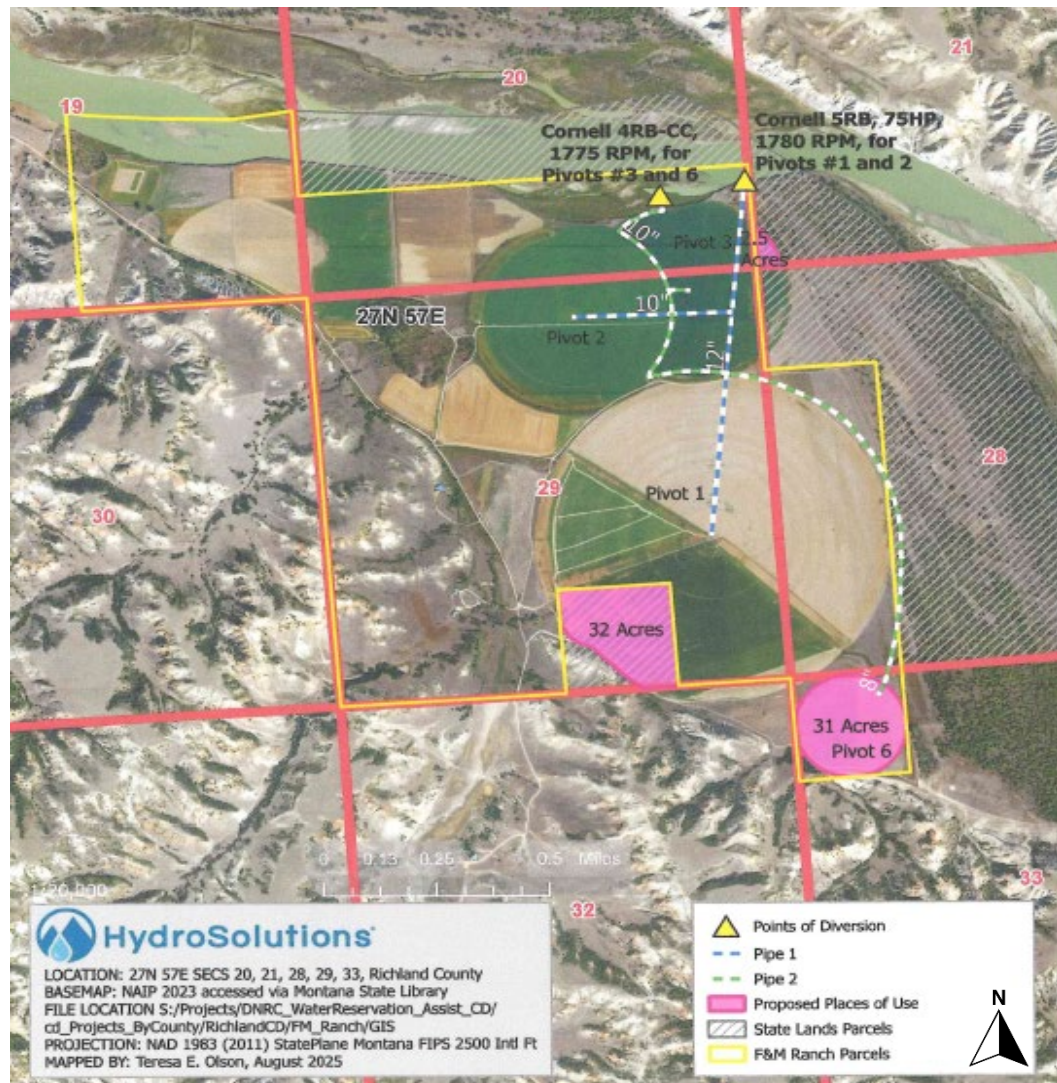


Figure 1: Map of Applicants Proposed Point of Diversion and Place of Use for CD Change Pre-Application No. 40S 30173545 created by HydroSolutions in August 2025.

2.0 Historical Use Analysis

The Applicant proposes to change a portion of the Richland County Conservation District Water Reservation that has not yet been put to use, and therefore, no historical use for the amount of water being changed exists.

The Board of Natural Resources and Conservation granted the Richland County Conservation District a water reservation (40S 84500-00) for 186.9 CFS up to 25,349 AF for use on 11,141 acres for future irrigation development out of the Missouri River. The water reservation was granted in the *Lower Missouri River Basin Final Order* dated December 30, 1994, with a priority date of July 1, 1985.



3.0 Analysis of Impacted Surface Water Sources

3.1 Summary of Proposed Use

The Applicant proposes to use a non-perfected portion of Richland County Conservation District Water Reservation No. 40S 84500-00 for Irrigation use. The place of use is described in Table 1. The Applicant proposes the period of diversion to be April 1 through October 19. The total proposed volume that the applicant will utilize from the Richland Conservation District, Missouri River, Water Reservation is 124.45 AF. The Applicant did not request any additional flow rate. Richland County Conservation District Water Reservation (40S 84500-00) has a flow rate of 58.75 CFS and a volume of 13,731.7 AF remaining in their water reservation prior to this application.

3.2 Source Description

Proposed Source of Water: Missouri River

Proposed Source Type: Perennial

Proposed Point of Diversion: NWSESE, Section 20, T27N, R57E, Richland County.
NESESE, Section 20, T27N, R57E, Richland County.

3.3 Method of Estimation

Gage Name: USGS Missouri River near Culbertson, MT.

Gage Number: 06185500

Period of Record: April 1958- September 2024

Why this gage is considered an appropriate data source: According to ARM 6.12.1702, available stream gage records will be used to quantify physical availability using the median of the mean monthly flow rate and volume during the proposed months of diversion. USGS Gage #06185500, Missouri River near Culbertson, is the nearest gage to the proposed POD and is approximately 6 river miles upstream of the POD. The date range includes the entire period of record for this gage.

3.4 Monthly Flow Rate and Volume

Methodology: The physical availability of the Missouri River water at the POD will be quantified monthly. Department practice for physical availability analyses where the gage used is upstream of the POD is to subtract the monthly flow rates of existing water rights between the gage and the POD to the median of the mean monthly flows at the gage. The DNRC used the method below to quantify physically available monthly flows and volumes at the POD during the proposed period of diversion:

1. The Department calculated the median of the mean monthly flow rates in cubic feet per second (CFS) for the Missouri River using USGS Gage #06185500 records for each month of the proposed period of diversion (Table 2, column B). Those flows were converted to monthly



volumes in AF (Table 2, column C) using the following equation found on DNRC Form 615:
 $\text{median of the mean monthly flow (CFS)} \times 1.98 (\text{AF/day/1 CFS}) \times \text{days per month} = \text{AF/month}.$

2. The Department calculated the monthly flows appropriated by existing users upstream of the gage on the source (Table 2, column D) by:
 - i. Generating a list of existing water rights from the Missouri River USGS Gage #06185500 to the NESESE Section 20, T27N, R57E, Richland County, POD (list is included in the application file and available upon request);
 - ii. Calculating the flow rate of all Livestock Direct from Source water rights drinking from the reach of interest using either 30 GPD/AU for Statements of Claim or 15 GPD/AU for all other water rights and adding 35 GPM.
 - iii. Calculating a volume for all Livestock Direct from Source rights without a designated volume by multiplying the number of AU by 30 GPD/AU for Statements of Claim or 15 GPD/AU for all other water rights.
 - iv. Calculating a volume for all Irrigation rights without a designated volume by multiplying the number of acres by 2.69 AF/AC per Department water use standards for a moderate consumptive use climatic area.
 - v. Assuming that the flow rate of each existing right is continuously diverted throughout each month of the period of diversion. This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion. The Department has determined that this leads to an overestimation of existing uses from the source.
3. Since the gage used is upstream of the POD, the Department subtracted in the flow rates of the existing rights between USGS Gage #06185500 and the POD on the Missouri River (Table 2, column D) to the median of the mean monthly gage values (Table 2, column B) to determine physical availability at the POD (Table 2, column F). Physically available monthly flows were then converted to monthly volumes (Table 2, column G).

Table 2: Physical Availability at the Point of Diversion on the Missouri River

A	B	C	D	E	F	G
Month	Median of the Mean Monthly Flow at Gage 06185500 (CFS)	Median of the Mean Monthly Volume at Gage 06185500 (AF)	Existing Rights from Gage 06185500 to POD (CFS)	Existing Rights from Gage 06185500 to POD (AF)	Physically Available Water at POD (CFS)	Physically Available Water at POD (AF)
April	8,000	475,200	46.49	823.33	7,953.51	474,376.67
May	8,656	531,305	57.62	1,297.46	8,598.38	530,007.82
June	9,547	567,092	57.62	1,297.46	9,489.38	565,794.34
July	9,371	575,192	57.62	1,297.46	9,313.38	573,894.52
August	8,973	550,763	57.62	1,297.46	8,915.38	549,465.28
September	7,836	465,458	57.62	1,297.46	7,778.38	464,160.94
October	6,976	428,156	54.95	1,188.92	6,920.55	426,967.27



4.0 Area of Potential Impact Analysis

The Area of Potential Impact for this application is: The area of potential impact is approximately 5.4 river miles downstream of the uppermost proposed point of diversion (NWSESE, Section 20, T27N, R57E, Richland County). A total of 20 surface water rights exist within the reach. A list of rights can be found in Appendix A: Tables 3, 4, and 5.

Why this is an appropriate Area of Potential Impact: The Area of Potential Impact extends 5.4 river miles from a point in the NWSESE, Section 20, T27N, R57E, Richland County, to E2NE Section 36, T27N R57E, Richland County. The Board of Natural Resources and Conservation granted the Richland County Conservation District a Water Reservation (40S 84500-00) for 186.9 CFS up to 25,349 AF for use on 11,141 AC for future irrigation development out of the Missouri River. The water reservation was granted in the Lower Missouri River Basin Final Order dated December 30, 1994, with a priority date of July 1, 1985.

Methodology: A list of water rights that divert from the Missouri River at the uppermost point of diversion (NWSESE, Section 20, T27N, R57E, Richland County) to approximately 5.4 river miles downstream was compiled using the DNRC GIS web application Water Mapper. Water rights could include all active Statements of Claim, Provisional Permits, Conservation District Reservations, Instream Flow Reservations, Federally Reserved Water Rights, and Hydropower Water Rights.



Review

This document has been reviewed by Matt Miles on March 2, 2026.

References

Department Standard Practice for Determining Historical Use
Department Standard Practice for Determining Physical Availability of Surface Water
Department Standard Practice for Determining Area of Potential Adverse Effect



Appendix A: Water Rights within the Area of Potential Impact



Table 3: Water Rights within the Area of Potential Impact

Water Right Number	Volume (AF)	Flow Rate (CFS)	Period of Diversion	Water Right Type
40S 12708 00	1,388	8.02	04/15 to 11/15	PROVISIONAL PERMIT
40S 99060 00	309.7	2.23	05/01 to 09/30	PROVISIONAL PERMIT
40S 137594 00	1.9	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 137576 00	1.29	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 30062765	182	1.52	04/01 to 10/15	CONSERVATION DISTRICT RECORD
40S 30113093	243	4.2	01/01 to 12/31	PROVISIONAL PERMIT
40S 30153305	210	1.5	01/01 to 12/31	PROVISIONAL PERMIT
40S 215560 00	102.22	1.44	04/01 to 11/04	STATEMENT OF CLAIM
40S 137593 00	1.29	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 186738 00	43.06	0.14	01/01 to 12/31	STATEMENT OF CLAIM
40S 135791 00	10.34	0.09	01/01 to 12/31	STATEMENT OF CLAIM
40S 30132248	17	0.68	01/01 to 12/31	STATEMENT OF CLAIM
40S 74618 00	540	2.23	04/01 to 09/15	PROVISIONAL PERMIT
40S 171255 00	1,827.36	15.6	04/15 to 10/19	STATEMENT OF CLAIM
40S 30142622	2.45	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 135792 00	7.89	0.09	01/01 to 12/31	STATEMENT OF CLAIM
40S 30142668	0.07	0.08	01/01 to 12/31	STATEMENT OF CLAIM
40S 137592 00	0.88	0.08	01/01 to 12/31	STATEMENT OF CLAIM

KEY	Irrigation - Volume via Climatic Area
	Irrigation - Volume as Claimed
	Livestock Direct from Source

Table 4: Fish, Wildlife, and Parks Water Reservation (40S 30017671)

Water Right Number	Flow (CFS)	Volume (AF)	Period of Diversion	Water Right Type
40S 30017671	5,178	3,748,500	01/01 to 12/31	FWP Water Reservation

Table 5: Fort Peck-Montana Compact, MCA §85-20-201, Article III F.1 Volumes

Month	Fort Peck Tribal Right (AF)	Fort Peck Tribal Right (CFS)**
April	50,000	840
May	105,000	1708
June	145,000	2437
July	215,000	3497
August	180,000	2927
September	105,000	1765
October	50,000	813

** Flow rate in CFS is calculated by dividing monthly volume in AF by the number of days in the month by 1.98 AF/day.

5. It has been established to the satisfaction of the Board that the amount requested by Richland County Conservation District as modified and conditioned herein is needed to fulfill the purpose of the reservation (MCA §85-2-316(4)(a)(iii); ARM 36.16.107B(3)).

6. Upon a weighing and balancing of the evidence, it has been established to the satisfaction of the Board that the reservation requested by the Richland County Conservation District is in the public interest (MCA §85-2-316(4)(a)(iv)(1993); ARM 36.16.107B(4)).

7. Lower Missouri River water reservations approved by the Board shall have a priority date of July 1, 1985 (MCA §85-2-331(4)). The Board may determine the relative priorities of all reservations (MCA §85-2-316(a)(e)).

8. The Board may grant, deny, modify or condition any reservation applied for. In no case may the Board make a reservation for more than the amount applied for (MCA §85-2-316).

9. The Board has no authority under the reservation statutes or any other statutes to determine, or alter any water right that is not a reservation (MCA §85-2-316(14)).

IV. ORDER

1. Subject to all applicable conditions and limitations, the application of the Richland County Conservation District is granted for all projects requested. The amount of diversion, volume of diversion, places of diversion and places of use are as set forth in the reservation application of Richland County Conservation District for those particular projects and by reference are made a part of this Order. The total amount of water reserved for this applicant is 25,349 acre-feet at a flow rate not to exceed 186.9 cfs to serve a total of 11,141 irrigated acres.

2. The Richland County Conservation District water reservations approved by the Board shall have a priority date of July 1, 1985.

3. Relative to other reservations, the priority date of the Richland County Conservation District shall be subordinate to the consumptive use reservations granted to all municipalities, equal in priority with all other reservations granted to conservation districts, and shall have priority over the reservations granted to the Montana Department of Fish, Wildlife and Parks for instream flows.

4. Any and all liability arising from the reservation or the use of the reservation is the sole responsibility of the applicant. By granting such reservations, the Board, on behalf of itself and the Department of Natural Resources and Conservation, assumes no liability.

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

January 26th, 2026

Richland County Conservation District
2745 West Holly St.
Sidney, MT 59270

Subject: Complete Preapplication Form for Beneficial Water Use Change Application No. 40S 30173545

Dear Applicant,

The Havre Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form and preapplication meeting fee on January 26th, 2026, and the Department deems the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302.

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 January 26th, 2026.

Please let me know if you have any questions.

Best,



Kailee Ingalls | Water Resource Specialist
Water Resources Division, Havre Regional Office
Montana Department of Natural Resources and Conservation
Physical| 210 6th Ave | Havre MT 59501
Mailing| PO Box 1828 | Havre MT 59501
DESK: 406-808-7126 **EMAIL:** kailee.ingalls@mt.gov

CC: Mark Elison <marke@hydrosi.com>
2912 7th Ave. N.
Billings, MT 59101-0906





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

For Department Use Only

Application # 30173545 Basin 40S
Form Received 1126126
Fee Rec'd \$ 500 Check # _____
Deposit Receipt # HVS 261 42 62
Payor RWD
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)).

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

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

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

If yes,

- a. Date form was returned ("Form Returned" date found in "For Department Use Only" box on the previously submitted Form 600P-B): _____
- b. If a "Follow-up Responses" or "Amended Responses" document is required by questions 2 or 3, submit complete updated documents with responses that stand-alone. The Department will only use the most recently submitted "Follow-up Responses" and "Amended Responses" documents for departmental technical analyses or scientific credibility review; the Department will not use multiple versions of a document.

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

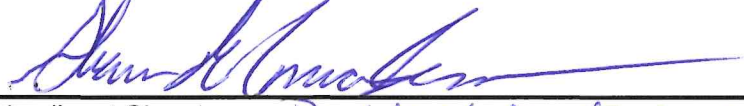
If yes,

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



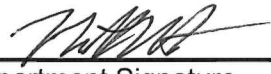
FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"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))."

 1-22-2026
Applicant Signature Richland County Conservation District Date

Applicant Signature _____ Date _____

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

 1-26-2026
Department Signature _____ Date

Department Signature _____ Date _____





PREAPPLICATION MEETING FORM:
PART A
CHANGE
§ 85-2-302(3)(b)

Form No. 606P-A (Revised 10/2025)

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 # 30173545 Basin 40S
Meeting Date 1/14/26 Time 9:00 AM
Variance Request Deadline N/A
Completed Form Deadline 7/13/26

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 RICHLAND COUNTY CONSERVATION DISTRICT
Mailing Address 2745 West Holly ST City Sidney State MT Zip 59270
Phone Numbers: Home _____ Work 406-943-3001 Cell _____
Email Address richlandcd@gmail.com

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

Contact/Representative Information: Add more as necessary.

Contact/Representative is: ☐ Applicant ☒ Consultant ☐ Attorney ☐ Other (describe) _____
Contact/Representative Name Mark Elison
Mailing Address 2912 7th Ave. N. City Billings State MT Zip 59101
Phone Numbers: Home _____ Work _____ Cell _____
Email Address marke@hydrosi.com

NOTE: If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary. 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
Kailee Ingalls	DNRC	WRS - Havre
Matt Miles	DNRC	Havre - Regional Manager
Ashley Kemmis	DNRC	WRS - Glasgow
Mark Elison&Christine Kangas	HydroScience	Consultant
Julie Goss	RCCD	District Administrator
Jay Smith	DNRC	Central Office



Table of Contents

Application Details	4
Historical Use	10
Historical Use: Place of Use	14
Historical Use: Point of Diversion	16
Historical Use: Period of Diversion	18
Historical Use: Historical Diverted Volume	19
Historical Use: Historical Consumed Volume	21
Historical Use: Historical Places of Storage	25
Surface Water.....	25
Return Flow Analysis	25
Extended Return Flow Analysis	27
GROUNDWATER.....	28
Groundwater Analysis for Changes.....	28
Groundwater Analysis: Well/Pumping Pit.....	28
Groundwater Analysis: Developed Spring	30
Groundwater Analysis: Pond	31
Surface Water Depletion Analysis for Changes.....	32
Surface Water Depletion Analysis: Well/Pumping Pit.....	32
Surface Water Depletion Analysis: Developed Spring	33
Surface Water Depletion Analysis: Pond	34
Extended Surface Water Depletion Analysis.....	35
Return Flow Analysis	36
Extended Return Flow Analysis	38
Mandatory Project-Specific Questions	39
Temporary Change	39
Change in Purpose	40
Ditch-Specific Questions	41
Change in Place of Storage	46
Mitigation, Aquifer Recharge, and Marketing for Mitigation/Aquifer Recharge	47
Instream Flow	51
Salvage Water	52
Non-Mandatory Questions for Criteria Analysis	53
Adverse Effect.....	53
Adverse Effect: Evaluation of Impacts to Identified Surface Water Rights for Return Flow Analysis	55
Adverse Effect: Evaluation of Impacts to Identified Water Rights for Surface Water Depletion Analysis ...	60
Adequate Means of Diversion and Operation	66
Beneficial Use	67
Possessory Interest.....	68
Non-Mandatory Project-Specific Questions.....	68
Change in Place of Storage	68
Instream Flow Change	69
Mitigation, Aquifer Recharge, and Marketing for Mitigation	70
Water Marketing	70



FOLLOW-UP 72

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION 74



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?							☒ Y ☐ N	☐ F
2. How many change applications will be needed for this project? Please refer to ARM 36.12.1305 for more information. 1 - 606CD FOR WATER RESERVATION: 40S 84500 00								☐ F
3. Which water right(s) are proposed for change?							☐ A	☐ F
Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion	
	Flow	GPM	CFS	Flow	GPM	CFS		
40S 84500 00		☐	☐		☐	☐		
		☐	☐		☐	☐		
		☐	☐		☐	☐		
		☐	☐		☐	☐		
		☐	☐		☐	☐		
4. Is the proposed change on a non-filed water project?							☐ Y ☐ N	☐ 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.							☐ S	☐ F

■ N/A to CD CHG



5. Is the source surface water or groundwater? <u>Surface Water</u>		
6. What is the source name? <u>Missouri River</u>		
7. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.	☐ A	☐ F

Water Right #	CD 40S 84500 00					
Point of diversion	☒	☐	☐	☐	☐	☐
Place of use	☒	☐	☐	☐	☐	☐
Purpose of use	☐	☐	☐	☐	☐	☐
Place of storage	☐	☐	☐	☐	☐	☐

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.	☐ S	☐ F	■ N/A to CD CHG
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.	☒ S	☐ F	
10. Does the change involve a change in point of diversion?	☐ Y ☐ N	☐ F	■ N/A to CD CHG
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).	☐ A	☐ 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: _____	☐ A	☐ F	■ N/A to CD CHG
---	----------------------------	----------------------------	-----------------

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. _____ _____	☐ F	■ N/A to CD CHG
--	----------------------------	-----------------

13. Does the change involve a change in place of use?	☒ Y ☐ N	☐ F	
a. If yes,			
i. What are the geocodes of the proposed place of use?	☐ A	☐ F	■ N/A to CD CHG

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.	☒ A	☐ F
---	---------------------------------------	----------------------------

Acres	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County
Total								



iii. Do other water rights supplement or overlap the historical and/or proposed place of use?	☐ Y ☒ N	☐ 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? _____ _____ _____	☐ A	☐ 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").	☐ A	☐ 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>
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	

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.	☐ Y ☐ N	☐ F	■ N/A to CD CHG
15. Are conveyance ditches used for historical or proposed uses? If yes, answer ditch-specific questions 109 to 115.	☐ Y ☐ N	☐ F	■ N/A to CD CHG
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.	☐ Y ☐ N	☐ F	■ N/A to CD CHG
17. Is the proposed use temporary? If yes, answer questions 94 to 100 for temporary changes.	☐ Y ☐ N	☐ F	■ N/A to CD CHG
18. Are you filing on behalf of another entity? If yes, describe. _____ _____	☐ Y ☐ N	☐ F	■ N/A to CD CHG



19. Do you own the entire historical place of use for all water rights proposed for change?	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ F
i. If no,		
1. List the water rights for which you do not own the entire historical place of use. _____	☐ A	☐ F
2. Are the water rights listed in question 19.a.i.1 severed from the historical POU?	☐ Y ☐ N	☐ F
a. If yes, do you own the entirety of the severed water rights proposed for change?	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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. _____ _____ _____	☐ A	☐ F
20. Are you proposing to add a point of diversion or place of use on State of Montana Trust Land?	☒ Y ☐ N	☐ 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.	☒ Y ☐ N	☐ F



21. Will your system be designed to discharge water from the project?	☐ Y ☒ N	☐ F
a. If yes, explain the wastewater disposal method. A discharge permit may be required to comply with §§ 75-5-410 and 85-2-364, MCA. _____ _____ _____	☐ A	☐ F
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.	☐ Y ☒ N	☐ 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.	☐ Y ☒ N	☐ 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.	☐ Y ☒ N	☐ 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.	☐ Y ☒ N	☐ 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.	☐ Y ☒ N	☐ F
a. For what purposes will the marketed water be used? _____ _____ _____	☐ A	☐ 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.	☐ Y ☒ N	☐ 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.	☐ Y ☒ N	☐ F



Historical place of use, historical acres irrigated, method of irrigation, and historical storage are not considered in this change authorization. This is a new use under the Richland County Conservation District's water reservation, and this section does not apply.

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.

<u>Questions, Narrative Responses, and Tables</u>				<u>Check-boxes</u>	<u>Follow-Up</u>	
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. _____ _____				☐ A	☐ F	■ N/A to CD CHG
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.				☐ A	☐ F	■ N/A to CD CHG
Statement of Claim Number	Previous Change Authorization Number	Project Completion Notice Date	Previous Historical Use Analysis Quality			



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.	☐ A	☐ F	☒ N/A to CD CHG
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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

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.	☐ A	☐ F	☒ N/A to CD CHG
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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?	☐ Y ☐ N	☐ F	■ N/A to CD CHG
a. If yes, explain. 	☐ A	☐ 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.	☐ A	☐ F	■ N/A to CD CHG

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



	☐ New Historical Use Analysis. Date for which historical use will be analyzed: _____
	☐ Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	☐ Full Historical Use Analysis N/A. Water right number serving as historical use in lieu of analysis: _____
	☐ New Historical Use Analysis. Date for which historical use will be analyzed: _____
	☐ Existing Historical Use Analysis. Change authorization number with existing Historical Use Analysis: _____
	☐ 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?	☐ Y ☐ N	☐ F
a. If yes,		
i. Is this firsthand knowledge?	☐ Y ☐ N	☐ F
ii. Who has this knowledge and what was their role? _____	☐ A	☐ F
b. If no, where will the historical use data be derived? _____ _____	☐ A	☐ F

■ N/A to
CD CHG



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? _____		☐ F	■ N/A to CD CHG
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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?	☐ Y ☐ N	☐ F	■ N/A to CD CHG
38. Are you proposing to change all water rights associated with the historical place of use?	☐ Y ☐ N	☐ F	■ N/A to CD CHG
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.	☐ A	☐ 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?	☐ Y ☐ N	☐ 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. _____ _____	☐ S	☐ F
b. Irrigation		
i. Is the water right being changed a Statement of Claim?	☐ Y ☐ N	☐ F
1. If yes, does the Water Resources Survey corroborate the acres irrigated listed on the abstract?	☐ Y ☐ N	☐ 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.	☐ S	☐ F
2. If no, submit one or more aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	☐ S	☐ F
c. Lawn and garden		
i. Submit aerial photographs that can corroborate the historical place of use, including the number of irrigated acres.	☐ S	☐ F
d. Stock		
i. Submit aerial photographs, grazing records, or other records to corroborate the historical place of use.	☐ S	☐ F
ii. Did the stock drink direct from source or direct from ditch?	☐ Y ☐ N	☐ F
1. If no, submit data sources that make clear the location of the stock watering infrastructure.	☐ S	☐ 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.	☐ S	☐ 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).							☐ A	☐ F	■ N/A to CD CHG
POD ID	Means	Location (¼ ¼ ¼ Section)	Proposed for Change?						
			☐ Y ☐ N						
			☐ Y ☐ N						
			☐ Y ☐ N						

41. Do the legal land descriptions from the abstract encompass the actual locations of all historical points of diversion?							☐ Y ☐ N	☐ F	■ N/A to CD CHG
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.							☐ S	☐ F	

42. Answer questions below related to the diversion means for each of the historical points of diversion.									■ N/A to CD CHG
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).							☐ A	☐ F	

POD ID	Dimensions	Slope	Material	Estimated Capacity			Method
	FT	%		Cap.	GPM	CFS	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	



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).				☐ A	☐ F
POD ID	Estimated Capacity			Method	
	Cap.	GPM	CFS		
		☐	☐		
		☐	☐		
		☐	☐		
		☐	☐		
		☐	☐		

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).				☐ A	☐ F
POD ID	Estimated Capacity			Method	
	Cap.	GPM	CFS		
		☐	☐		
		☐	☐		
		☐	☐		
		☐	☐		
		☐	☐		



43. Do other water rights share any of the points of diversion?					☐ Y ☐ N	☐ 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).					☐ A	☐ F
POD ID	Water Right No.	Flow Rate			Relationship	
		Flow	GPM	CFS		
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		
			☐	☐		

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?					☐ Y ☐ N	☐ F
a. If no,						
i. Why are they different?					☐ A	☐ F

ii. Is there a place of storage?					☐ Y ☐ N	☐ F
45. When was water diverted for the purposes of the water rights being changed?					☐ A	☐ F
Start Date (Month (MM)/Day (DD))					End Date (MM/DD)	
_____					_____	

■ N/A to CD CHG



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?	☐ Y ☐ N	☐ F	■ N/A to CD CHG
a. If yes, does the period of diversion for all purposes fall within Department standards?	☐ Y ☐ N	☐ 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. _____ _____ _____ _____	☐ A	☐ 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.			■ N/A to CD CHG
a. Irrigation			
i. Do you want ARM 36.12.1902(10) to be used to calculate historical diverted volume?	☐ Y ☐ N	☐ 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.	☐ S	☐ F	
ii. What were the crop(s) grown? _____		☐ 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. _____ _____ _____	☐ A	☐ 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. 		☐ A	☐ 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. 		☐ A	☐ F
iii. Did historical diversions serve more than one non-irrigation purpose?		☐ Y ☐ N	☐ F
1. If yes, how much of the diversions served each non-irrigation purpose and how did you determine this? 		☐ A	☐ F
48. Did diversions ever regularly cease within the period of use due to insufficient water in source or calls based on priority date?		☐ Y ☐ N	☐ F
a. If yes, please explain. 		☐ A	☐ 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. ☐ Irrigation. Answer question 50. ☐ Lawn and garden. Answer question 51. ☐ Stock. Answer question 52. ☐ Domestic and multiple domestic. Answer question 53. ☐ Municipal. Answer question 54. ☐ Other. Answer question 55.			■ N/A to CD CHG
50. Irrigation			■ N/A to CD CHG
a. Will you use Department standards for historical consumptive use as defined in ARM 36.12.1902?	☐ Y ☐ N	☐ F	
i. If no,			
1. What method will you use to determine historical consumptive use? _____ _____	☐ A	☐ 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.	☐ S	☐ 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. _____	☐ A	☐ F	
2. What was the slope (%) of the historical place of use? _____		☐ F	



3. Are there any factors beyond irrigation method type/subtype and place of use slope that may influence percent efficiency of irrigation?	☐ Y ☐ N	☐ 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.	☐ S	☐ F
4. Based on answers to the above questions, what is the percent efficiency of irrigation? _____		☐ F
5. What is the County Management Factor? _____		☐ F
6. What is evapotranspiration (ET) based on the irrigation method and county? _____		☐ F
7. What percent of applied water are irrecoverable losses per ARM 36.12.1902(17)? _____		☐ F



51. Lawn and garden				■ N/A to CD CHG
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.		☐ Y ☐ N	☐ F	
i. If yes, which standard? _____			☐ F	
ii. If no, please provide an estimate of historical water use based on expert analysis and methods used to determine this estimate. _____ _____		☐ A	☐ F	
52. Stock				■ N/A to CD CHG
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. _____		☐ A	☐ F	
b. How many animal units were historically served? _____			☐ F	
c. Did these animal units rely entirely on the water right(s) proposed for change for their full water demand?		☐ Y ☐ N	☐ F	
i. If no, explain. _____ _____		☐ A	☐ F	



53. Domestic and multiple domestic			■ N/A to CD CHG
a. How many households were served? _____		☐ 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.	☐ Y ☐ N	☐ F	
i. If no, what standard will be used? _____		☐ F	
c. Did the historical use include wastewater disposal and treatment?	☐ Y ☐ N	☐ 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? _____	☐ A	☐ F	
54. Municipal			■ N/A to CD CHG
a. What is the volume of water (AF) historically consumed for municipal purposes? _____		☐ 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.	☐ S	☐ F	
55. Other			■ N/A to CD CHG
a. Specify the other purposes. _____		☐ F	
b. What is the volume of water (AF) historically consumed for other purposes? _____		☐ F	
c. Submit evidence to support the volume of water historically consumed.	☐ S	☐ 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)).					☐ Y ☐ N	☐ 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.					☐ A	☐ F
ID	Surface Area (AC)	Capacity (AF)	Annual Net Evaporation (FT/YR)	# of Annual Fillings		

■ N/A to CD CHG

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 ■ N/A to CD CHG

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
57. Do the purposes of the water rights proposed for change include irrigation?	☐ Y ☐ N	☐ 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.	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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.	☐ Y ☐ N	☐ 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.	☐ S	☐ F
61. How many acres, if any, will be retired from the historical place of use? _____		☐ F
62. Are irrigated acres proposed that are outside the historical place of use?	☐ Y ☐ N	☐ F
a. If yes,		
i. How many acres? _____		☐ 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? _____		☐ F
iii. What is the slope (%) of the new place of use? _____		☐ F
iv. Based on 62.a.ii to 62.a.iii, what is the percent efficiency of irrigation for the new acres? _____		☐ F
v. What is the County Management Factor for the new acres? _____		☐ F
vi. What is the ET based on the irrigation method and county for the new acres? _____		☐ F
vii. What percent of applied water are irrecoverable losses for new acres? _____		☐ F
63. Do you have information for the Department to consider about the source and location where return flows historically accrued?	☐ Y ☐ N	☐ F
a. If yes, submit this information to the Department.	☐ S	☐ F

Extended Return Flow Analysis ■ N/A to
CD CHG

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> _____ _____	☐ A	☐ F
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?	☐ Y ☐ N	☐ F
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.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	☐ Y ☐ N	☐ F
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.	☐ Y ☐ N	☐ F
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.		



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?					☐ Y ☐ N	☐ 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? _____						☐ F
Well/Pumping Pit	Answer questions 67 to 72	Developed Spring	Answer question 73	Pond	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.	☐ Y ☐ N	☐ F
a. If yes, explain. The Department will let you know if the request is reasonable and identify additional data needs. _____ _____ _____ _____ _____	☐ A	☐ F



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. 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)).	☐ S	☐ F
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)).	☐ S	☐ F
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.	☐ Y ☐ N	☐ F
a. If yes, submit Form 653, Form 600/606-ATA, and Form 633 together on or before the Variance Request Deadline.	☐ S	☐ F
b. If no, you may choose to submit Form 600/606-ATA and Form 633 before the Variance Request Deadline, and the Department will review these two forms. 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)).		
71. Have all the wells/pumping pits been constructed?	☐ Y ☐ N	☐ F
a. If no,		
i. Submit a list of the POD IDs for all wells/pumping pits and mark whether they have or have not been constructed.	☐ S	☐ F
ii. When will the proposed wells/pumping pits be constructed? _____		☐ F

iii. Is the requested volume for each proposed well/pumping pit known?							☐ Y ☐ N	☐ F
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with POD ID. _____ _____							☐ A	☐ F
2. If no, what is the total requested volume (AF) and the number of proposed PODs? _____								☐ F
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.							☐ A	☐ 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					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					

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?		☐ Y ☐ N	☐ F
a. If yes, submit the measurements to the Department and answer the following questions:		☐ S	☐ F
i. Do you have flow rate (GPM or CFS) and volume measurements?		☐ Y ☐ N	☐ F
ii. With what method were measurements collected? _____ _____		☐ A	☐ F



iii. What is the interval of measurements? _____		☐ F
iv. Is the interval of measurements sufficient to comply with the Department standard of monthly flow measurements taken at regular intervals or at department-approved intervals during the proposed period of diversion?	☐ Y ☐ N	☐ 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? _____	☐ A	☐ F
ii. With what method and at what interval will measurements be collected? _____ _____	☐ A	☐ 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.	☐ S	☐ 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.	☐ S	☐ 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?	☐ Y ☐ N	☐ F
a. If yes,		
i. Explain. _____ _____ _____	☐ A	☐ F
ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F



Surface Water Depletion Analysis 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)?					☐ Y ☐ N	☐ F
• Change in point of diversion • Change in place of use, purpose of use, or place of storage that result in a change in consumptive use or pumping schedule.						
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? _____						☐ F
Well/Pumping Pit	Answer questions 78 to 79	Developed Spring	Answer question 80	Pond	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.								☐ A	☐ 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					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					

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).	☐ A	☐ F
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(Before) POD ID				(After) POD ID			
☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A				☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A			
Month	Volume (AF)	Month	Volume (AF)	Month	Volume (AF)	Month	Volume (AF)
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

Surface Water 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.	☐ Y ☐ N	☐ 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,	☐ Y ☐ N	☐ F
a. Did you skip questions 74 to 76 because there is no change in POD? If yes,	☐ Y ☐ N	☐ 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.	☐ S	☐ 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> .	☐ S	☐ F
c. Are any of the <i>unchanged</i> or <i>retired</i> ponds fed or drained by surface water, in addition to groundwater?	☐ Y ☐ N	☐ F
i. If yes,		
1. Explain. _____ _____ _____	☐ A	☐ F
2. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F



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).	☐ A	☐ F
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(Before) POD ID				(After) POD ID			
☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ N/A				☐ Diverted volume/# of Days ☐ 80% dry year IWR ☐ 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

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> _____ _____ _____	☐ A	☐ F
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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?	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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.	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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.	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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.	☐ Y ☐ N	☐ 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.	☐ S	☐ F
89. How many acres, if any, will be retired from the historical place of use? _____		☐ F
90. Are irrigated acres proposed that are outside the historical place of use?	☐ Y ☐ N	☐ F
a. If yes,		
i. How many acres? _____		☐ 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? _____	☐ A	☐ F
iii. What is the slope (%) of the new place of use? _____		☐ F
iv. Based on question 90.a.ii to 90.a.iii, what is the percent efficiency of irrigation for the new acres? _____		☐ F
v. What is the County Management Factor for the new acres? _____		☐ F
vi. What is the ET based on the irrigation method and county for the new acres? _____		☐ F
vii. What percent of applied water are irrecoverable losses for new acres? _____		☐ F
91. Do you have information for the Department to consider about the source and location where return flows historically accrued?	☐ Y ☐ N	☐ F
a. If yes, submit this information to the Department.	☐ S	☐ F

Extended Return Flow Analysis

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> _____ _____	☐ A	☐ F
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?	☐ Y ☐ N	☐ F
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.		
b. If no, did you elect in question 1 for the Department to conduct technical analyses?	☐ Y ☐ N	☐ F
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.	☐ Y ☐ N	☐ F
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.		

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.	☒ Y ☐ N	☐ F
95. What elements of the water rights are being temporarily changed? See attached comments.		☐ F
96. For what purpose will the water rights be temporarily used? See attached comments.		☐ F
97. For how many years will the water rights be temporarily changed? See attached comments.		☐ F
98. Will the temporary change be intermittent over the years?	☐ Y ☒ N	☐ F
a. If yes, explain.	☐ A	☐ 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?	☐ Y ☒ N	☐ F
a. If yes, explain the water conservation or storage project.	☐ A	☐ 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.	☐ Y ☒ N	☐ 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.	☐ A	☐ 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)
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	
Total					☐	☐	

103. Answer the questions specific to each new and unchanged purpose identified in question 102.								
Lawn and garden	Question 104	Stock	Question 105	Domestic and multiple domestic	Question 106	Other purpose	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?	☐ Y ☐ N	☐ F
i. If yes, which standard? _____		☐ F
ii. If no, describe how consumptive use will be estimated. This must be based on expert analysis. _____ _____	☐ A	☐ F
105. Stock		
a. How many animal units will be served? _____		☐ F



106. Domestic and multiple domestic		
a. Households & bedrooms per household served? _____		☐ F
b. Will the Department volume standard be used to determine consumptive use?	☐ Y ☐ N	☐ F
i. If no, what volume standard will be used? _____	☐ A	☐ F
c. Will the proposed use include wastewater disposal and treatment?	☐ Y ☐ N	☐ 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? _____		☐ F
107. Other purpose		
a. What is the other purpose (e.g., municipal, commercial)? _____		☐ F
b. What is the percentage of consumption for the proposed use? Please explain. _____ _____ _____	☐ A	☐ 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.	☐ Y ☒ N	☐ 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 POU's, 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.	☐ S	☐ 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? _____		☐ F
b. List the water rights proposed for change that were conveyed by the ditch. _____ _____		☐ 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. _____	☐ A	☐ 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.	☐ S	☐ 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. _____ _____	☐ A	☐ F
f. What type of soils compose the historical conveyance ditch? For lined ditches, write "lined" instead. _____ _____	☐ A	☐ F



g. Are other water rights conveyed by the historical conveyance ditch?	☐ Y ☐ N	☐ F
i. If yes,		
1. List the water right numbers and their flow rates. _____ _____ _____	☐ A	☐ F
2. What is the sum of the flow rates, including the water rights proposed for change? _____	☐ A	☐ 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.	☐ S	☐ F
h. Were any water rights proposed for change part of one historical water right that was split?	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ F
1. If no, do any of the water rights proposed for change have a carriage water requirement?	☐ Y ☐ N	☐ F
a. If yes,		
i. List the water rights with a carriage water requirement _____		☐ 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.	☐ S	☐ 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.	☐ Y ☒ N	☐ 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 POU's, 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.	☐ S	☐ 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? _____		☐ F
b. Is this ditch a historical conveyance ditch detailed in questions 110 to 111?	☐ Y ☐ N	☐ 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?	☐ Y ☐ N	☐ 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. _____		☐ 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. _____ _____	☐ A	☐ 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.	☐ S	☐ F

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



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. _____ _____	☐ A	☐ F
g. What type of soils compose the proposed conveyance ditch? For lined ditches, write "lined" instead. _____ _____	☐ A	☐ F
h. Are other water rights conveyed by the proposed conveyance ditch?	☐ Y ☐ N	☐ F
i. If yes,		
1. List the water right numbers and their flow rates. _____ _____ _____	☐ A	☐ F
2. What is the sum of the flow rates, including the water rights proposed for change? _____	☐ A	☐ F
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.	☐ S	☐ F
i. Were any water right(s) proposed for change identified as having a carriage water requirement in question 111.h.i.1.a.i?	☐ Y ☐ N	☐ F
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.	☐ S	☐ F
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.		



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.	☐ Y ☒ N	☐ F
117. Is this application to add a new place of storage or change an existing place of storage? _____		☐ 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. _____ _____	☐ A	☐ F
118. Is the place of storage located on-stream?	☐ Y ☐ N	☐ F
a. If no, describe any losses related to conveyance that are not detailed in "Ditch-Specific Questions." _____ _____ _____	☐ 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> _____	☐ S	☐ F
120. What is the proposed surface area of the place of storage? _____	☐ A	☐ 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	☐ F
122. Will the place of storage be lined?	☐ Y ☐ N	☐ 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.	☐ Y ☒ N	☐ F
a.	Mitigation water. If yes, answer question 125 and 126.	☐ Y ☐ N	☐ F
b.	Aquifer recharge water. If yes, answer question 125 and 127.	☐ Y ☐ N	☐ F
c.	Marketing for mitigation/aquifer recharge. If yes, answer question 128.	☐ Y ☐ N	☐ F
125.	Mitigation Water and Aquifer Recharge Water		
a.	Identify the water right(s) for which the mitigation/aquifer recharge water will be used. _____	☐ A	☐ 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. _____	☐ A	☐ 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?	☐ A	☐ F

Month	Days	Flow Rate			Volume	Month	Days	Flow Rate			Volume
		Flow	GPM	CFS				Flow	GPM	CFS	
January			☐	☐		July			☐	☐	
February			☐	☐		August			☐	☐	
March			☐	☐		September			☐	☐	
April			☐	☐		October			☐	☐	
May			☐	☐		November			☐	☐	
June			☐	☐		December			☐	☐	



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.	☐ Y ☐ N	☐ F
i. If yes, describe the origin of this water and in the table below, list how much it will contribute. _____	☐ A	☐ F

Month	Days	Flow Rate			Volume	Month	Days	Flow Rate			Volume
		Flow	GPM	CFS				Flow	GPM	CFS	
January			☐	☐		July			☐	☐	
February			☐	☐		August			☐	☐	
March			☐	☐		September			☐	☐	
April			☐	☐		October			☐	☐	
May			☐	☐		November			☐	☐	
June			☐	☐		December			☐	☐	

126. Mitigation Water			
a. What is legal land description (¼ ¼ ¼ section of start and end) and length (ft) of the mitigation reach? _____		☐ A	☐ 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). _____ _____ _____		☐ A	☐ F
127. Aquifer Recharge Water			
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? _____		☐ A	☐ 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> 	☐ A	☐ 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). 	☐ A	☐ F
d. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. 	☐ A	☐ 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> 	☐ A	☐ F
128. Marketing for Mitigation/Aquifer Recharge		
a. What is the proposed location of the reach where water is to be marketed ($\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ section of the start and the end of the reach)? 	☐ A	☐ F
b. Is this marketing for mitigation	☐ Y ☐ N	☐ F
i. If yes, by what means will water be made available? 	☐ A	☐ F



c. Is this marketing for aquifer recharge?	☐ Y ☐ N	☐ 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). _____ _____ _____ _____	☐ A	☐ F
2. What is the volume of water that will be used for aquifer recharge? _____	☐ A	☐ F
3. Describe any constraints on the aquifer recharge schedule, such as priority date limitations. _____ _____	☐ A	☐ 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> _____ _____ _____	☐ A	☐ F
d. Describe your ability to measure and operate all existing diversions to adjust flow rate as water is sold or leased. _____ _____ _____ _____	☐ A	☐ F



e. How will you cease diversions for the existing beneficial use as water is sold or leased? _____ _____ _____	☐ A	☐ 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.	☐ Y ☒ N	☐ F
131. What is the source name where streamflow will be maintained or enhanced? _____		☐ F
132. What is the location (¼ ¼ ¼ section of start and end of reach) and length (FT) of the protected reach? _____	☐ A	☐ F
133. Describe the way the streamflow is to be maintained or enhanced. _____ _____	☐ A	☐ 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.	☐ Y ☐ N	☐ F
a. If no, describe the proposed change to existing purposes, including flow rate, volume, and, if applicable, acres. _____ _____ _____ _____	☐ A	☐ 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.	☐ Y ☐ N	☐ 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.	☐ Y ☒ N	☐ 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. _____ _____	☐ A	☐ F
139. How much water was salvaged from implementation of the water saving method? Include flow rate (GPM or CFS) and volume (AF). _____		☐ F
140. How did you determine the amount of water salvaged? _____ _____ _____ _____	☐ A	☐ 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. Pumps in the river can be turned off. _____ _____ _____	☐ A
143. Explain how you can control your diversion in response to call being made. Shut down the pumps. _____ _____ _____	☐ A
144. Are you aware of any calls that have been made on any source of supply or depleted surface water source?	☐ Y ☒ N
a. If yes, explain. _____ _____	☐ A
145. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	☐ Y ☒ N
a. If yes, list the sources and explain. _____ _____	☐ A
146. Describe how the change will or will not affect your ability to make call. POD already exist. POD will not be moving up or down stream. _____ _____	☐ 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. _____		■ N/A to CD CHG
a. Why was the water right not used? _____ _____	☐ A	
b. Why will a resumption of use not adversely affect other water users? _____ _____ _____	☐ 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. _____	☐ Y ☐ 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. _____ _____	☐ Y ☐ N	
148. Is this a point of diversion change?	☐ Y ☐ N	■ N/A to CD CHG
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?	☐ Y ☐ N	
1. If yes, list the water rights. _____ _____	☐ A	



iii. Will any new points of diversion or conveyance infrastructure be shared with one or more existing water rights?	☐ Y ☐ N
1. If yes, describe how capacity of the new shared point of diversion and/or conveyance infrastructure is sufficient for all water rights. _____ _____ _____	☐ 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?	☐ Y ☐ 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?	☐ Y ☐ N
i. If no, is only one stream gage located near the location where return flows accrue?	☐ Y ☐ 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: _____	

■ N/A to CD CHG



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. Gage 1: _____ Gage 2: _____	
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.	☐ Y ☐ N
i. If yes, explain. _____ _____	☐ 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?	☐ Y ☐ N
i. If yes, skip to question 152.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?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ 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?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ 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?	☐ Y ☐ 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?	☐ Y ☐ 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.	☐ S
ii. Who collected the measurements? _____	☐ A

■ N/A to CD CHG



iii. With what method were the data collected? _____ _____	☐ A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	☐ Y ☐ N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	☐ A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ 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?	☐ Y ☐ 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?	☐ Y ☐ N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	☐ A

■ N/A to
CD CHG



ii. Describe the estimation technique. 	☐ 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?	☐ Y ☐ N
1. If yes,	
a. With what method will the data be collected? 	☐ A
b. What will be the interval of measurement? 	
c. Describe the proposed estimation technique. 	☐ 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.	☐ Y ☐ 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. _____ _____ _____	☐ 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?	☐ Y ☐ 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?	☐ Y ☐ N
a. If yes, with what method will the data be collected? _____ _____	☐ 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.	☐ Y ☐ 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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■ N/A to CD CHG



157. What is the surface water source for which you are answering questions 158 to 161? _____	
158. Are stream gage data available?	☐ Y ☐ 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?	☐ Y ☐ N
i. If no, is only one stream gage located near the point of net depletion accumulation?	☐ Y ☐ 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.	☐ Y ☐ N
i. If yes, explain. _____ _____	☐ 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?	☐ Y ☐ 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?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ 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?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ N
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N
a. Gage 1.	☐ Y ☐ 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. _____	☐ Y ☐ 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?	☐ Y ☐ 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?	☐ Y ☐ 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.	☐ S
ii. Who collected the measurements? _____	☐ A
iii. With what method were the data collected? _____ _____	☐ A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	☐ Y ☐ N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____	☐ A

■ N/A to
CD CHG



vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ 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?	☐ Y ☐ 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?	☐ Y ☐ N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____	☐ A
ii. Describe the estimation technique. _____ _____ _____ _____ _____	☐ 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?	☐ Y ☐ N
1. If yes,	
a. With what method will the data be collected? _____ _____	☐ A



b. What will be the interval of measurement? 	
c. Describe the proposed estimation technique. 	☐ 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? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N
c. If no, because no Department-accepted estimation technique will be appropriate for the hydraulically connected source:	
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. 	☐ A
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months with net depletions?	☐ Y ☐ N
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?	☐ Y ☐ N
a. If yes, with what method will the data be collected? 	☐ A



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.	☐ Y ☐ N
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.	

Adequate Means of Diversion and Operation

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



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.	☒ A
169.	Do you have any plans to measure your diversion and use?	☒ Y ☐ N
	a. If yes, describe the plan and the type of measurements you will take.	☒ A
	Flow Meter	

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.	☒ Y ☐ 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.	
	Irrigation - 1.9AF/AC Up to 2.5 AF/AC	
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.	☐ A
172.	Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?	☐ Y ☒ N
	a. If yes, have you researched or consulted with DEQ regarding those requirements?	☐ Y ☐ N
173.	Are you proposing to use surface water for in-house domestic use?	☐ Y ☐ N
	a. If yes, does a COSA exist for the proposed place of use?	☐ Y ☐ N
	i. If yes, please submit the COSA.	☐ S
	ii. If no, have you researched or consulted with DEQ regarding their requirements?	☐ Y ☐ N

■ N/A to CD CHG



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.	☒ Y ☐ N
a. If yes, explain. _____ _____ _____ _____	☐ A
b. If no, do you own all proposed places of use?	☐ Y ☐ 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. _____ _____ _____	☐ 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.	☐ Y ☐ N
a. If yes, submit preliminary designs.	☐ S
177. Will a drainage device be installed?	☐ Y ☐ N
178. Is the place of storage capacity calculated to be greater than 50 acre-feet?	☐ Y ☐ N
a. If yes, have you made an application to the DNRC Water Operations Bureau for a determination of whether the dam or reservoir is a high-hazard dam?	☐ Y ☐ 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?	☐ Y ☐ 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. _____ _____ _____ _____ _____ _____	☐ 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. _____ _____ _____ _____	☐ 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?	☐ Y ☐ N
a. If no, how will mitigation water be made available during the entire period when mitigation is necessary? _____ _____ _____	☐ A
187. How do the priority dates of the water rights proposed for change compare to other water rights on the source? _____ _____	☐ 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?	☐ Y ☐ N
a. If yes, submit them to the Department.	☐ S
189. Describe the need for marketing for mitigation/aquifer recharge. _____ _____ _____ _____	☐ 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.	☐ Y ☒ N
---	--



192. How will you control or limit access to the water? _____ _____	☐ A
193. Do you have contracts for the entire volume and flow rate sought?	☐ Y ☐ 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.	☐ 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.	

Section A. Water Reservation Details

A.1 _____	How much flow rate remains for this CD water reservation prior to this application?	58.75 CFS
A.2 _____	How much volume remains for this CD water reservation prior to this application?	13,731.7 AF
A.3 _____	What is the typical period of diversion the CD authorizes?	4/1 - 10/15
A.4 _____	What volume per acre (AF/AC) does the CD typically authorize?	2.5 AF/AC

Temporary/ Perm CHG Authorization -

This situation is similar to how we have dealt with Permanent /Temporary stock claims that have private and state lands POUs. It can be one application, two versions. If they lose the lease then it reverts to the earlier version with just the Permanent elements

Applications with both Temporary and Permanent Change Proposals

An applicant may submit one change application for a proposal involving both temporary and permanent changes to a water right (e.g., permanent change in point of diversion and temporary change in purpose to instream flow).



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
None	



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

1-14-2026

Date

Applicant Signature

Date


Department Signature

1-21-2026

Date



FORM 606P-A

PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION



REQUEST FOR PREAPPLICATION MEETING

ARM 36.12.1302(2)
(Revised 02/2025)

For Department Use Only

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	12/12/25
Received By	KI
Scheduled Meeting Date	1/14/26

1. Applicant Name F & M Ranch LLC

Mailing Address 2745 West Holly ST

City Sidney State MT Zip 59270

Home Phone 406-787-5794 Other Phone 406-787-5212

Email: traauma1@yahoo.com

2. Representative Name (if other than Applicant) Hydro Solutions Mark Elison

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

Mailing Address _____

City _____ State _____ Zip _____

Home Phone _____ Other Phone 406-568-4252

Email: marke@hydrosi.com

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

☐ Permit ☐ Change

4. Describe your project:

Application for Conservation District Reserved Water for irrigation. Place of use and diversion are outside of the original application for reservation (projects) and all subsequent authorizations issued by the Richland County Conservation District.



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

a) The flow rate and volume of water required:

Flow Rate _____ ☐ GPM ☐ CFS Volume 124.45 Acre-Feet

b) The point of diversion:

Point of Diversion #1 NE 1/4 SE 1/4 SE 1/4 Section 20, Township 27 ☐ N ☐ S, Range 57 ☐ E ☐ W
County RICHLAND

Lot/Tract _____ Block _____ Subdivision Name _____

Point of Diversion #2 NW 1/4 SE 1/4 SE 1/4 Section 20, Township 27 ☐ N ☐ S, Range 57 ☐ E ☐ W
County RICHLAND

Lot/Tract _____ Block _____ Subdivision Name _____

c) The place of use:

2.5 Acres 3 Lot _____ Block SW 1/4 SW 1/4 SW 1/4 Sec 21, Twp 27 ☐ N ☐ S, Rge 57 ☒ E ☐ W
32 Acres _____ Lot _____ Block _____ 1/4 SW 1/4 SE 1/4 Sec 29, Twp 27 ☐ N ☐ S, Rge 57 ☐ E ☐ W
31 Acres _____ Lot _____ Block _____ 1/4 NW 1/4 NW 1/4 Sec 33, Twp 27 ☐ N ☐ S, Rge 57 ☐ 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: MISSOURI RIVER

e) The proposed purpose: IRRIGATION

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

Type of water right Conservation District Basin 40S Water Right # 40S-84500-00

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 #	40S-84500-00				
Point of diversion	☐	☐	☐	☐	☐
Place of use	☒	☐	☐	☐	☐
Purpose of use	☐	☐	☐	☐	☐
Place of storage	☐	☐	☐	☐	☐

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

Place of use and diversion are outside of the original application for reservation (projects) and all subsequent authorizations issued by the Richland County Conservation District.

- 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

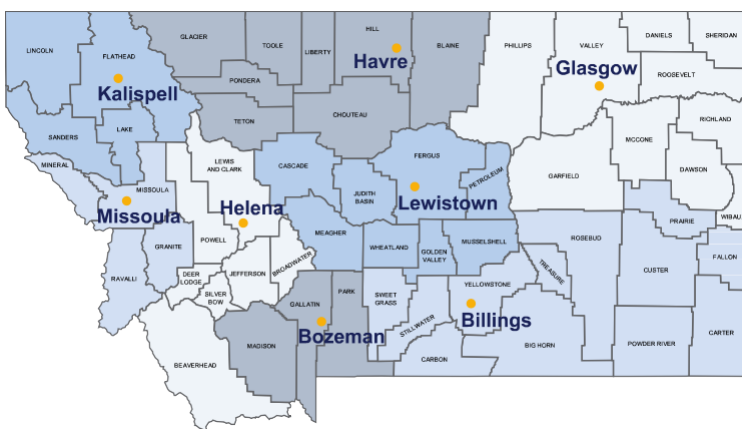
County _____

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

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



BOZEMAN

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

PHONE 406-586-3136 FAX 406-587-9726

EMAIL DNRCBozemanWater@mt.gov

Gallatin, Madison, and Park Counties



GLASGOW

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

PHONE 406-228-2561

EMAIL DNRCGlasgowWater@mt.gov

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



HAVRE

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

PHONE 406-265-5516

EMAIL DNRCHavreWater@mt.gov

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



HELENA

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

PHONE 406-444-6999 FAX 406-444-9317

EMAIL DNRCHelenaWater@mt.gov

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



KALISPELL

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

PHONE 406-752-2288

EMAIL DNRCKalispellWater@mt.gov

Flathead, Lake, Lincoln, and Sanders Counties



LEWISTOWN

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

PHONE 406-538-7459

EMAIL DNRCLeWistownWater@mt.gov

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



MISSOULA

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

PHONE 406-721-4284 FAX 406-542-5899

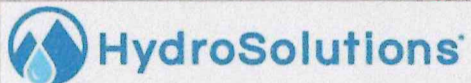
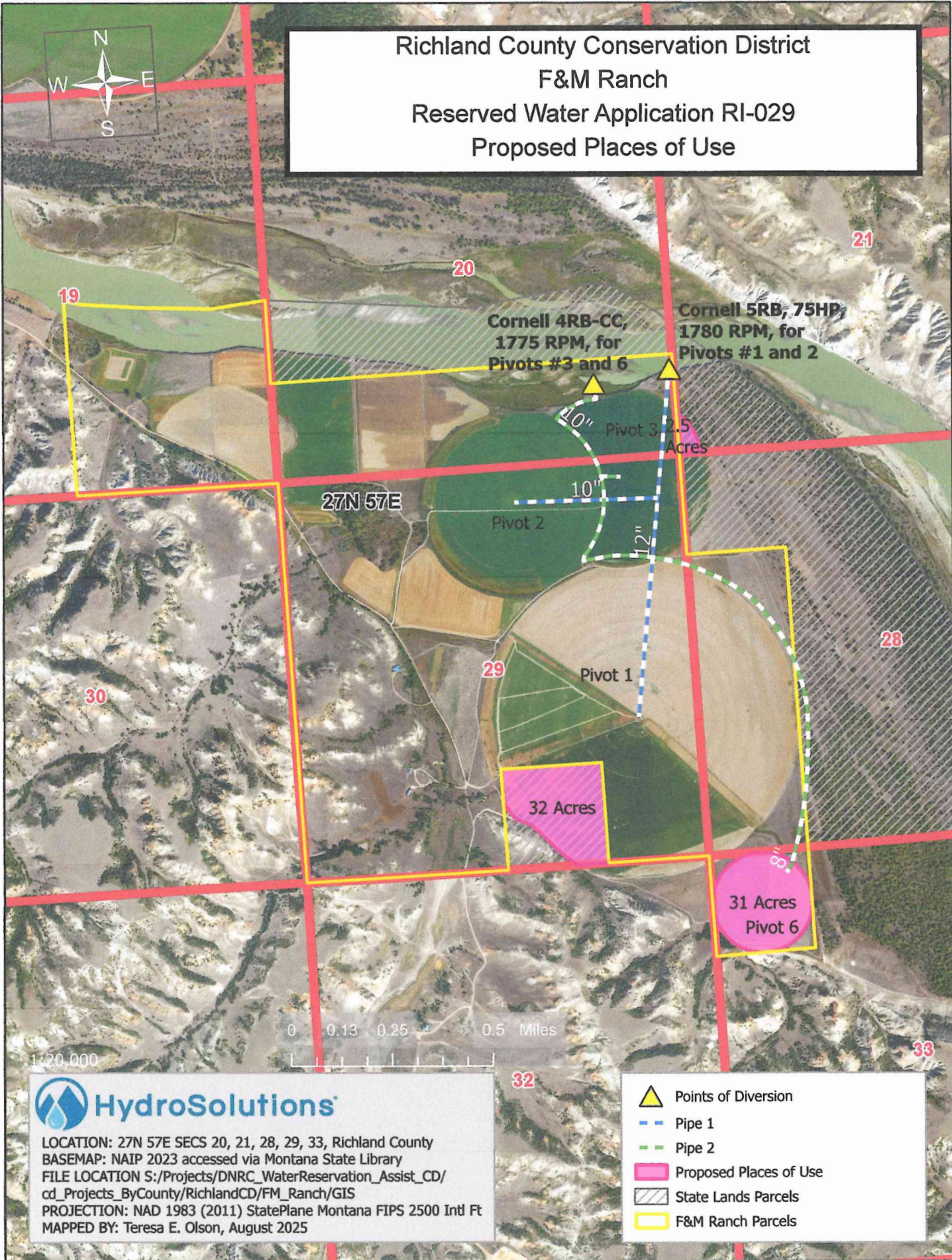
EMAIL DNRCMissoulaWater@mt.gov

Granite, Mineral, Missoula, and Ravalli Counties



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

Richland County Conservation District F&M Ranch Reserved Water Application RI-029 Proposed Places of Use



LOCATION: 27N 57E SECS 20, 21, 28, 29, 33, Richland County
 BASEMAP: NAIP 2023 accessed via Montana State Library
 FILE LOCATION S:/Projects/DNRC_WaterReservation_Assist_CD/
 cd_Projects_ByCounty/RichlandCD/FM_Ranch/GIS
 PROJECTION: NAD 1983 (2011) StatePlane Montana FIPS 2500 Intl Ft
 MAPPED BY: Teresa E. Olson, August 2025

- Points of Diversion
- Pipe 1
- Pipe 2
- Proposed Places of Use
- State Lands Parcels
- F&M Ranch Parcels

Richland County Conservation District
F&M Ranch
Reserved Water Application RI-029
Supplemental Water Rights



19

20

21

L8

L7

L6

L5

SWSW

W2NWNW

27N 57E

29

28

SWSE

30

33

32



HydroSolutions

LOCATION: 27N 57E SECS 19, 20, 28, 29, Richland County

BASEMAP: NAIP 2023 accessed via MSL

FILE LOCATION S:/Projects/DNRC_WaterReservation_Assist_CD/
CD_Projects_ByCounty/RichlandCD/FM_Ranch/GIS

MAPPED BY: TERESA E. OLSON

Supplemental Water Rights

 40S 171255 00 F&M Ranch

 40S 215560 00 State Lands

 State Lands Parcels

26N 57E



4RB-CC

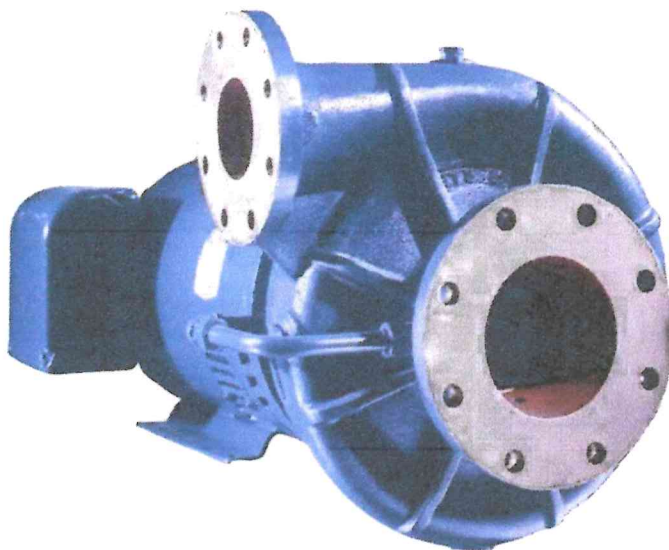
AVAILABLE MOUNTING CONFIGURATIONS

4RB-CC CLOSE-COUPLED
4RB-VM VERTICAL CLOSE-COUPLED

OPERATING LEVELS

MIN FLOW	150 GPM	34 m ³ /h
MAX FLOW	1390 GPM	315.5 m ³ /h
DISCHARGE SIZE	4"	102 mm
SUCTION SIZE	6"	152 mm
SOLIDS HANDLING	0.84"	21.34 mm
MAX SPEED	1800 RPM	1800 RPM
SHUT-OFF HEAD	180'	55 m
MAX WORKING PRESSURE	175 PSI	1207 kPa
BEP HEAD	145'	44.2 m
BEP FLOW	1030 GPM	234 m ³ /h
BEP PERCENT	85%	85%

PARTS	STANDARD MATERIAL (CAST IRON BRONZE FITTED)
WEAR RINGS	Bronze SAE 660
IMPELLER	Bronze SAE 40
VOLUTE	Cast Iron ASTM A48 CL30
SHAFT	Carbon Steel
SHAFT SLEEVE	Bronze SAE 660
BACKPLATE	Cast Iron ASTM A48 CL30
PACKING (STANDARD)	Graphited Acrylic
MECHANICAL SEAL (OPTIONAL)	Single T-1, Buna, Carbon/ Ceramic
MOTOR	Open drip-proof w/ 1.15 service factor



A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

The 4RB general purpose pump is designed with Cornell's renowned quality and durability. It features a 4" discharge and a 6" suction, enclosed multi-vane impeller and flanged tangential single volute. Optional motors include TEFC (other options available).

- External hydraulic balance line
- Back pullout design
- Replaceable hub & suction wear rings
- Replaceable shaft sleeve
- High efficiency hydraulics
- Low operating costs
- Two year warranty
- Optional Cycloseal® with type 1 mechanical seal
- Optional Run-Dry™ lubrication system
- "Shower curtain shield" bearing protection



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



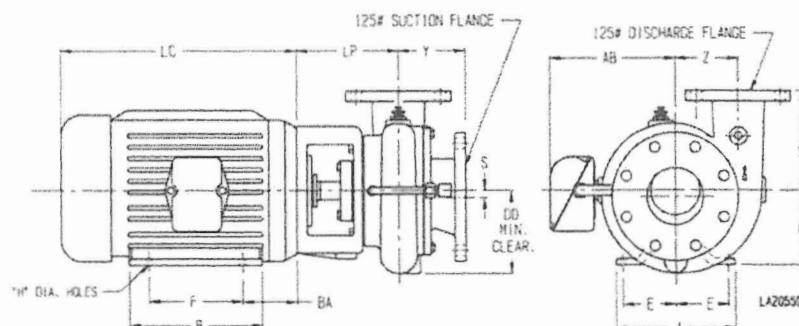
REFRIGERATION



RENTAL



4RB-CC



PUMP DIMENSIONS

MODEL	CONNECTION		DISCHARGE INCREMENT	AK DIM.	DD	S	X	Y	Z	LP
	DISCHARGE	SUCTION								
4RB	4	6	90°	8.5	10.88	-	10	7.38	8	7.75
				12.5	10.88	-	10	7.38	8	7.75

MOTOR DIMENSIONS

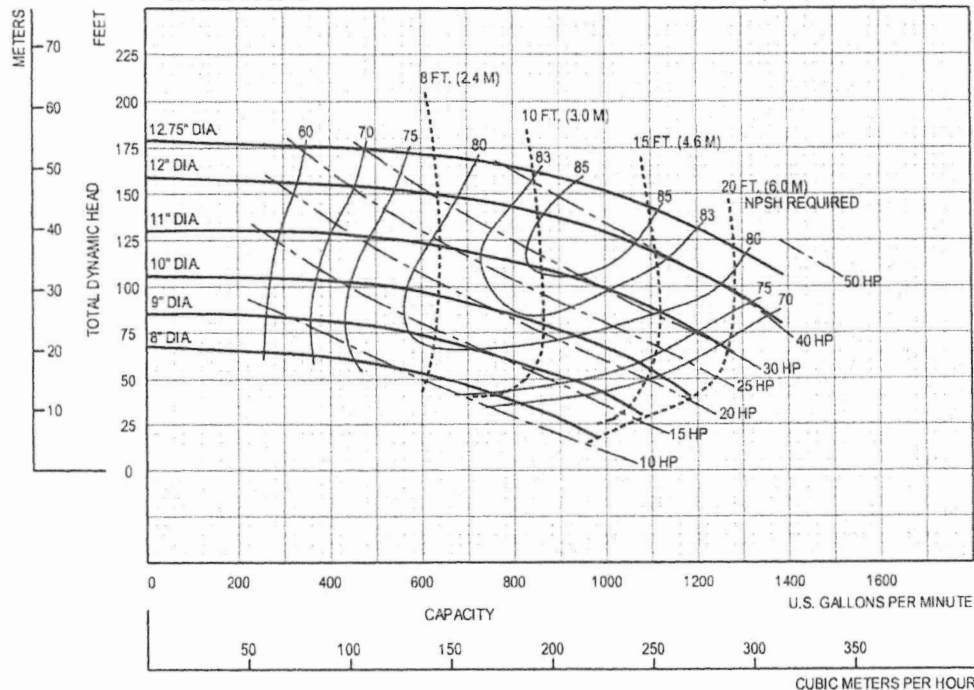
MOTOR FRAME	AK DIM.	A	B	D	E	F	H	AB	BA	LC
324-6	12.5	14.25	14	8	6.25	12	0.66	12.22	5.5	22.19
364-5	12.5	15.75	14	9	7	12.25	0.66	13.2	6.12	24.31
404-5	12.5	18.5	16.62	10	8	13.75	0.81	16.39	6.88	29.97

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N _s	Suction	Discharge	No. vanes
1775	VARIOUS	ENCLOSED	.84"	1332	6"	4"	7

SINGLE VOLUTE

MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Performances shown are for foot water, close-
 packed, standard impeller, and standard
 other mounting configurations, seal arrangements
 or liquids may require horsepower and/or
 performance adjustments.



Cornell Pump Company • Portland, Oregon

4RB - 1800 RPM

12/17/14

NEW PAGE

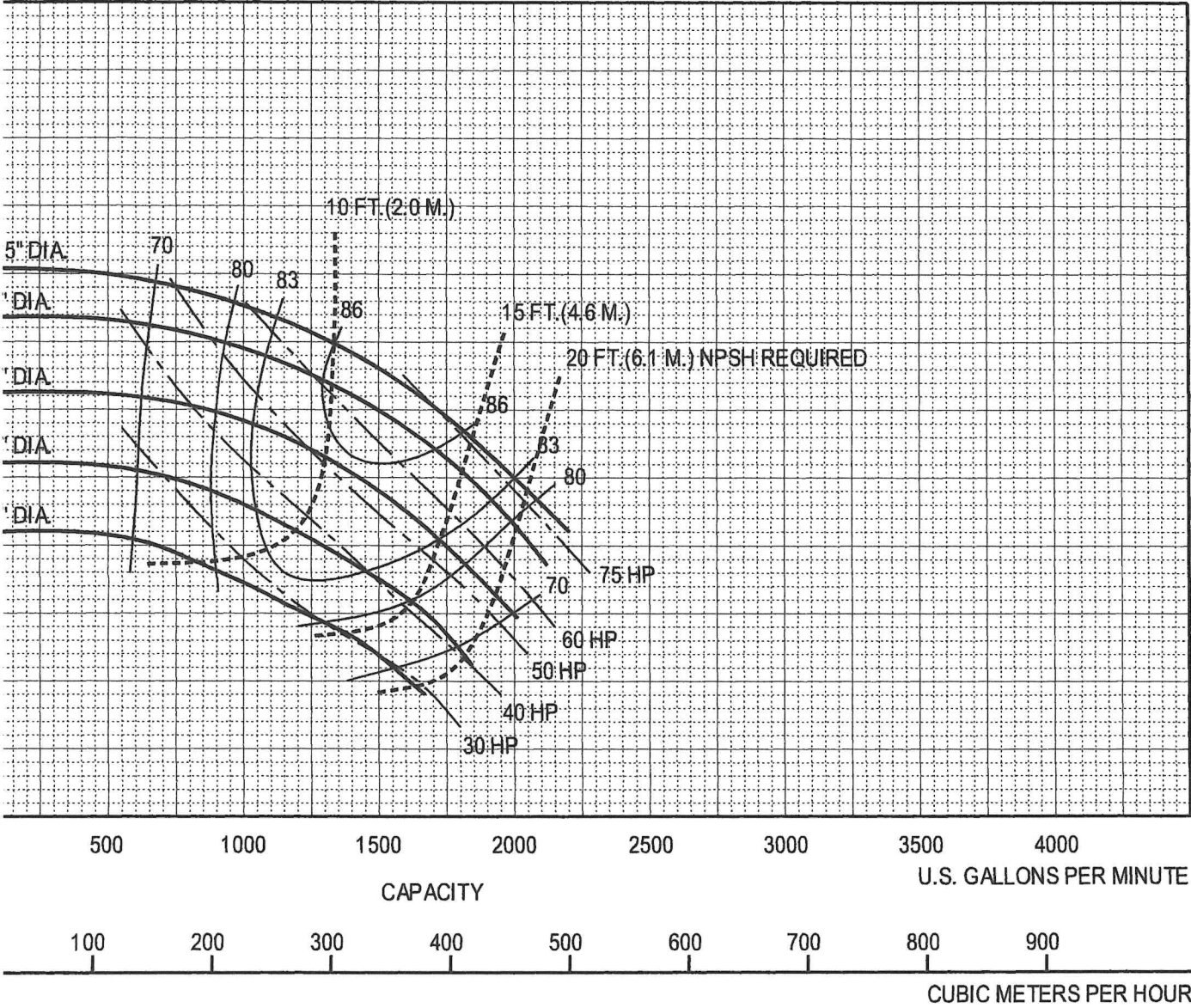
4RB18

DS4RBCC-103014

1780	VARIOUS	ENCLOSED	1.0"	1654	8"	5"	6
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DOUBLE VOLUTE

MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Company • Portland, Oregon	5RB - 1800 RPM
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APPLICATION FOR RESERVED WATER USE
RICHLAND COUNTY CONSERVATION DISTRICT

9/96

For District Use Only		
Application No. _____	Date Received <u>3-8-2018</u>	Time <u>9:50 AM</u>
Fee Received \$ <u>25.00</u>	Received By <u>JS</u>	

Please Print or Type:

- Applicant Name F + M Ranch
Mailing Address PO Box 454
City or Town Culbertson State MT Zip 59218
Home Phone (406) 787 5294 Other Phone () 787 5212
- Applying for (check one): ☐ New Irrigation, ☒ Supplemental, ☐ Both
- Source of Water: Missouri River
- Describe Irrigation System: Pivot + wheel line
- Crops to be Grown: Wheat Corn Sorghum Alfalfa
Point of Diversion Description (to the nearest 10 acres): County Richland
government lot _____, NE 1/4, SE 1/4, SE 1/4, sec 20, twp 27 N/S, rge 57 E/W
- Point of Discharge Description (to the nearest 10 acres): County Richland
government lot _____, SE 1/4, NE 1/4, SE 1/4, sec 29, twp 27 N/S, rge 57 E/W
- Place of Use Description: County Richland, New (n) or Supplemental (s)
acres 20, gvt. lot _____, N 1/2 SW 1/4, SE 1/4, sec 29, twp 27 N/S, rge 57 E/W, n/s
acres 18, gvt. lot _____, E 1/2 NW 1/4, NW 1/4, sec 18, twp 18 N/S, rge 57 E/W, n/s
TOTAL acres 50 (addendum sheet is attached if more room is needed for place of use)
- Volume Requested: _____ acre-feet, Volume of Discharge: _____ acre-feet
- Flow Rate Requested: _____ cubic ft. per second (cfs), or 1800 gallons per minute (gpm)
- Diversion Means: ☒ Pump: Type & Power Electric, ☐ Other _____
- Conveyance Means: ☒ Pipeline, Other TO PIVOT
- Period of Use: Month/Day April 15 to Month/Day OCT - 15
- Reserved Water Rights Projects: Is this a project that was originally included in the Conservation District water reservation application? ☐ Yes ☒ No

- A. Township and range ✓
- B. Section numbers and corners ✓
- C. Scale of map in inches ✓
- D. Project location and general layout ✓
- E. Points of diversion and discharge ✓
- F. Place of use ✓

NOTE: Please be sure to attach an accurate map. Lack of an accurate map results in an incomplete application. The application will be returned for completion. A copy of an ASCS aerial photo or a USGS topographic map is required. Please use a dark pencil or pen when writing on the map. Assistance is available from the District or the Resource Development Bureau, DNRC in completing these forms.

16. Soils Map: Include a copy of the soils map and suitability evaluation for your project. Indicate on the map the location of the project, point(s) of diversion, and point(s) of discharge.

17. Engineering Details: All available engineering data must be submitted with this application:

- A. General layout plans for point of diversion structures
- B. Placement plans of pumping plant/diversion structure
- C. Control structures design and placement NA
- D. Typical cross-section for dikes NA
- E. Conveyance and delivery ditch designs NA
- F. Reservoir cross-section and capacities NA
- G. Structural tables NA
- H. Pipeline designs ✓
- I. Yardage figures for land leveling and design grid NA
- J. Method of water use measurement
- K. Water availability and water quality evaluation
- L. Other information applicable to the project as deemed necessary by the District

18. Project Completion Date: 3-8-18

19. The Reserved Water Development Manual which governs Reserved Water Use Authorization for the Conservation District is on file in the district office and available for review.

20. **IMPORTANT NOTICE:** No person may appropriate water or commence construction on any project facilities prior to the approval of the project by the District and the receipt of a Reserved Water Use Authorization!

21. The applicant certifies that the statements above and documents attached are to the best of his/her knowledge true and correct.

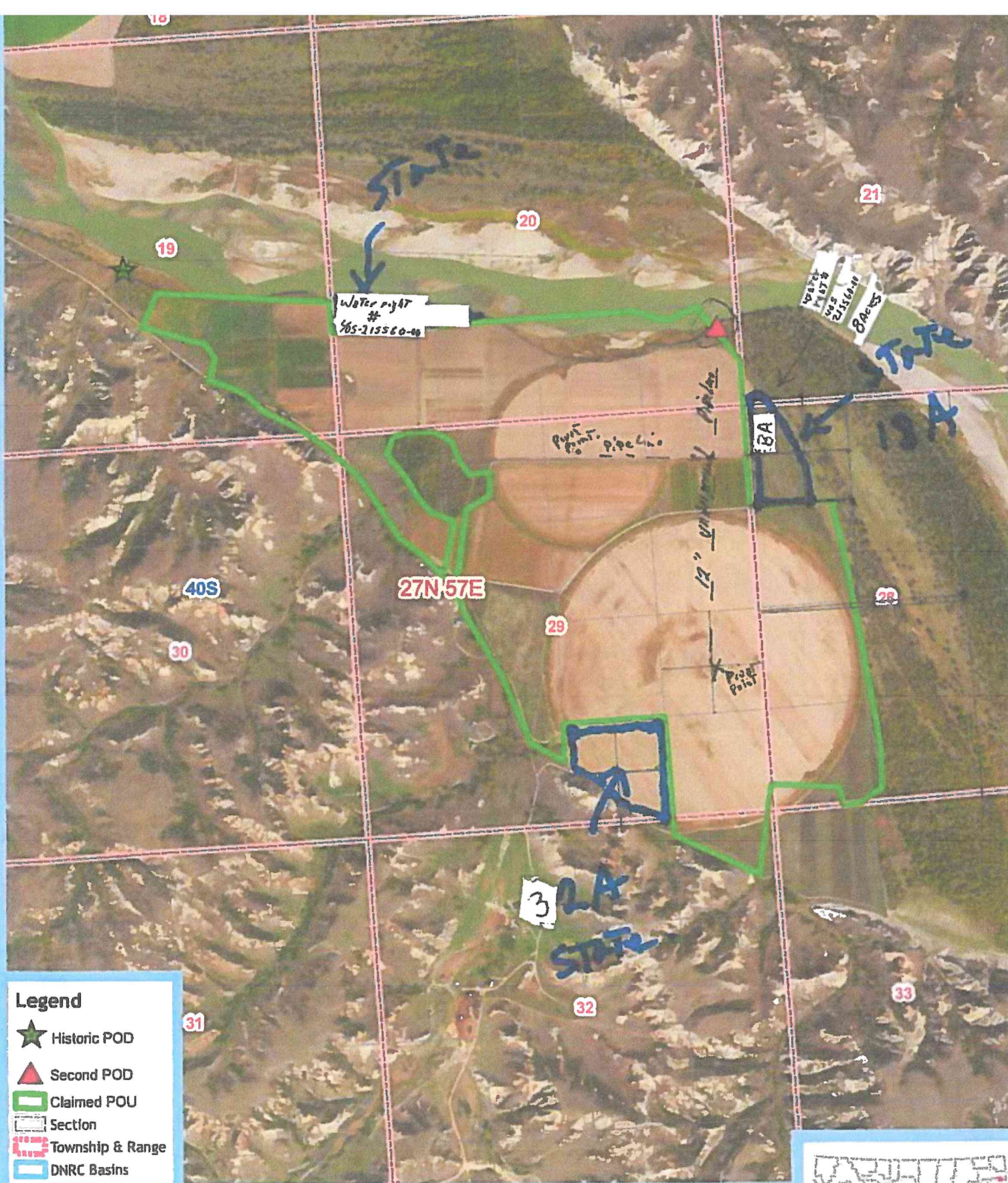
Applicant's Signature [Signature] Date 3-7-18

Prepared By: TERRI L Rasmussen Date 3-7-18

Submit Application and Fee to: **Richland County Conservation District,
HCR 89, Box 5165A, Sidney, MT 59270**

CONTINUED FROM PAGE 1 -- PLACE OF USE ADDENDUM

[illegible]



Legend

-  Historic POD
-  Second POD
-  Claimed POU
-  Section
-  Township & Range
-  DNRC Basins



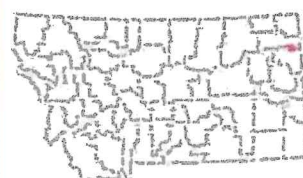
1:20,000

0 0.1 0.2 0.4 Miles

Map Created: 7/19/2017 By Todd Netto



Service Layer Credits: Montana State Library
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid,



STATE OF MONTANA
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
1424 9TH AVENUE P.O. BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number: 40S 215560-00 STATEMENT OF CLAIM

Version: 2 - POST DECREE

Version Status: ACTIVE

Late Claim: B

Owners:

MONTANA, STATE OF BOARD OF LAND COMMISSIONERS
TRUST LAND MANAGEMENT DIVISION
PO BOX 201601
HELENA, MT 59620-1601

Priority Date: JUNE 18, 1901

Enforceable Priority Date: JUNE 30, 1973

CLAIM FILED LATE 06/28/96 . AS MANDATED BY SECTION 85-2-221(3), MCA, THIS CLAIM IS SUBORDINATE, AND THEREFORE JUNIOR, TO ALL INDIAN AND FEDERAL RESERVED WATER RIGHTS AND ALL VALID TIMELY FILED CLAIMS BASED ON STATE LAW.

Type of Historical Right: USE

Purpose (use): IRRIGATION

Irrigation Type: FLOOD

Maximum Flow Rate: 1.44 CFS

THE FLOW RATE OF THIS WATER RIGHT HAS BEEN REDUCED TO THE 17 GPM PER ACRE GUIDELINE. THE FLOW RATE MAY BE CONTESTED BY PROPER OBJECTION.

Maximum Volume: THE TOTAL VOLUME OF THIS WATER RIGHT SHALL NOT EXCEED THE AMOUNT PUT TO HISTORICAL AND BENEFICIAL USE.

Climatic Area: 2 - MODERATELY HIGH

Maximum Acres: 38.00

Source Name: MISSOURI RIVER

Source Type: SURFACE WATER

Point of Diversion and Means of Diversion:

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1		NENESW	19	27N	57E	RICHLAND

Period of Diversion: APRIL 1 TO NOVEMBER 4

Diversion Means: PUMP

Period of Use: APRIL 1 to NOVEMBER 4

Place of Use:

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1	2.00	5	SE	20	27N	57E	RICHLAND
2	4.00	6	SE	20	27N	57E	RICHLAND
3	8.00		W2NWNW	28	27N	57E	RICHLAND
4	11.00	7	SW	20	27N	57E	RICHLAND
5	13.00	8	SW	20	27N	57E	RICHLAND
Total:	38.00						

18A

Remarks:

STARTING IN 2008, PERIOD OF DIVERSION WAS ADDED TO MOST CLAIM ABSTRACTS, INCLUDING THIS ONE.

STATE OF MONTANA
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
1424 9TH AVENUE P O BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number: 40S 171255-00 STATEMENT OF CLAIM
Version: 3 -- CHANGE AUTHORIZATION
Version Status: ACTIVE

THIS AUTHORIZATION IS LIMITED TO THE AMOUNT OF THE HISTORIC USE RECOGNIZED BY THE DEPARTMENT IN THIS PROCEEDING AS SUBJECT TO CHANGE, AND WILL THEREAFTER NOT EXCEED THAT AMOUNT. IF THE HISTORIC USE IS REDUCED UNDER ADJUDICATION PROCEEDINGS PURSUANT TO TITLE 85, CHAPTER 2, PART 2, MCA, THIS AUTHORIZATION WILL BE LIMITED TO A LESSER AMOUNT.

Owners: F & M RANCH LLC
602 E COOPER AVE SUITE 202
ASPEN, CO 81611

Priority Date: JULY 30, 1960

Enforceable Priority Date: JULY 30, 1960

Purpose (use): IRRIGATION

Irrigation Type: SPRINKLER/FLOOD

Maximum Flow Rate: 7,000.00 GPM

Maximum Volume: THE TOTAL VOLUME OF THIS WATER RIGHT SHALL NOT EXCEED THE AMOUNT PUT TO HISTORICAL AND BENEFICIAL USE.

Climatic Area: 2 - MODERATELY HIGH

Maximum Acres: 752.00

Source Name: MISSOURI RIVER

Source Type: SURFACE WATER

Point of Diversion and Means of Diversion:

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1		NENESW	19	27N	57E	RICHLAND

Period of Diversion: APRIL 15 TO OCTOBER 19

Diversion Means: PUMP

2		NESESE	20	27N	57E	RICHLAND
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Period of Diversion: APRIL 15 TO OCTOBER 19

Diversion Means: PUMP

Period of Use: APRIL 15 to OCTOBER 19

Place of Use:

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1	66.00		SE	19	27N	57E	RICHLAND
2	37.00		SESW	20	27N	57E	RICHLAND
3	58.00		S2SE	20	27N	57E	RICHLAND
4	35.00		SWNW	28	27N	57E	RICHLAND
5	75.00		W2SW	28	27N	57E	RICHLAND
6	116.00		NW	29	27N	57E	RICHLAND
7	160.00		NE	29	27N	57E	RICHLAND
8	80.00		E2SE	29	27N	57E	RICHLAND
9	40.00		NWSE	29	27N	57E	RICHLAND
10	24.00		E2SW	29	27N	57E	RICHLAND
11	16.00		NENE	32	27N	57E	RICHLAND
12	45.00		W2SW	20	27N	57E	RICHLAND
Total:	752.00						

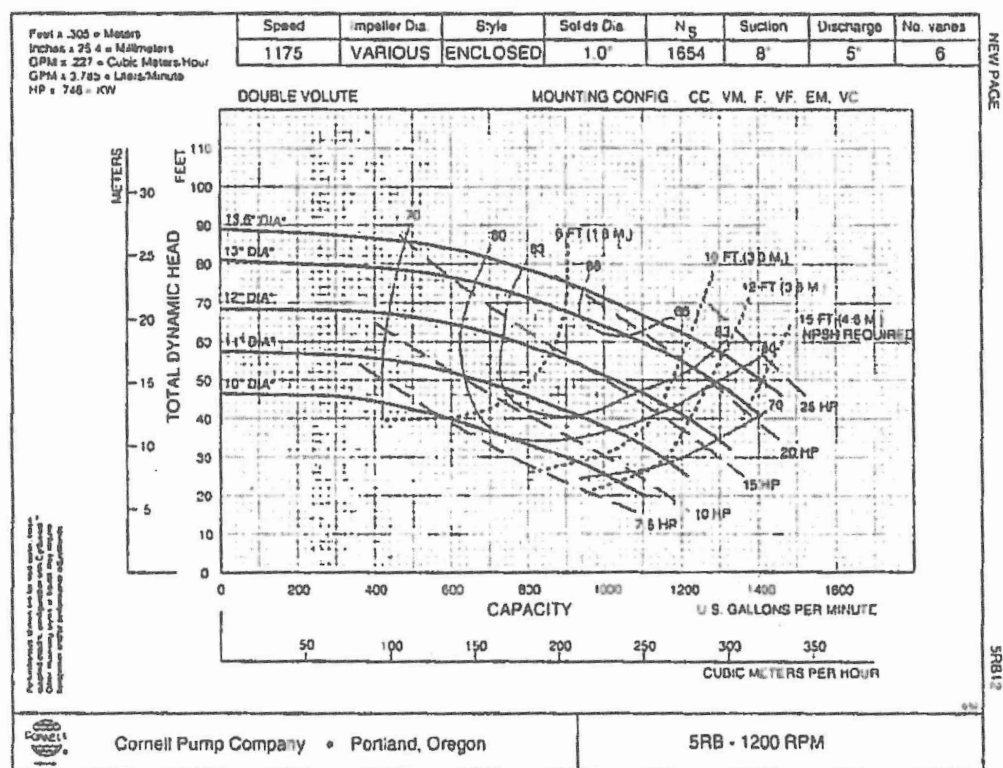
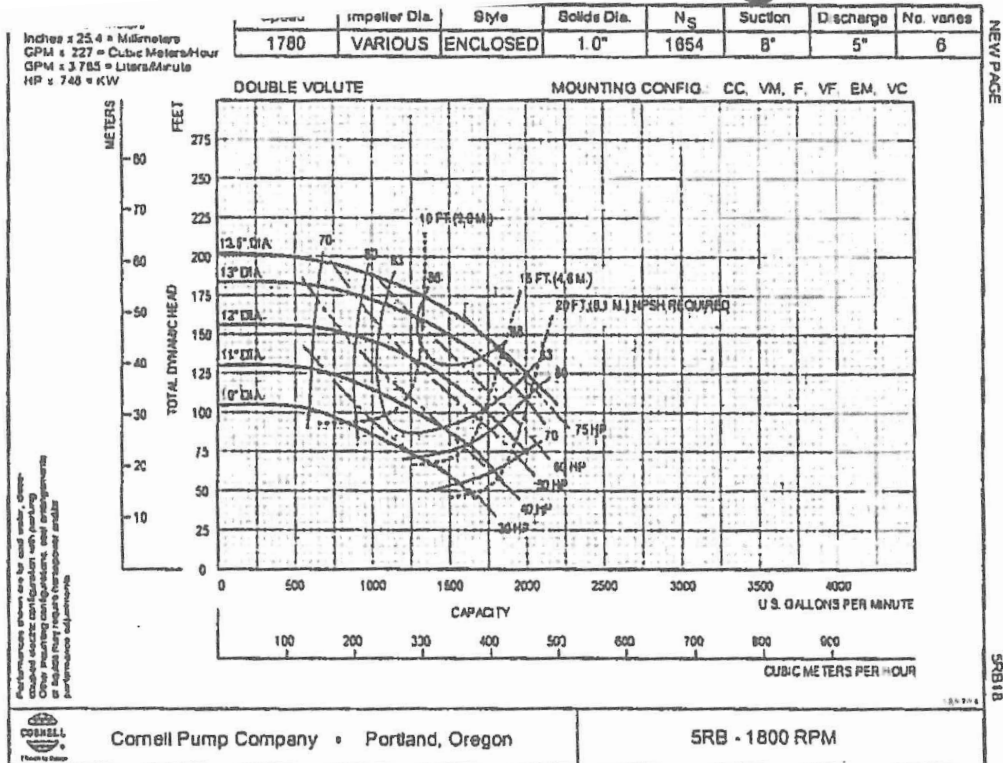
Geocodes/Valid: 27-3933-19-4-01-01-0000 - Y 27-3933-20-3-03-01-0000 - Y
27-3933-28-3-02-01-0000 - Y 27-3933-29-1-01-01-0000 - Y
27-3933-29-2-01-01-0000 - Y 27-3933-32-1-01-01-0000 - Y

Remarks:

THE FOLLOWING ELEMENTS WERE AMENDED BY THE CLAIMANT ON 11/15/96: PLACE OF USE, MAXIMUM ACRES.

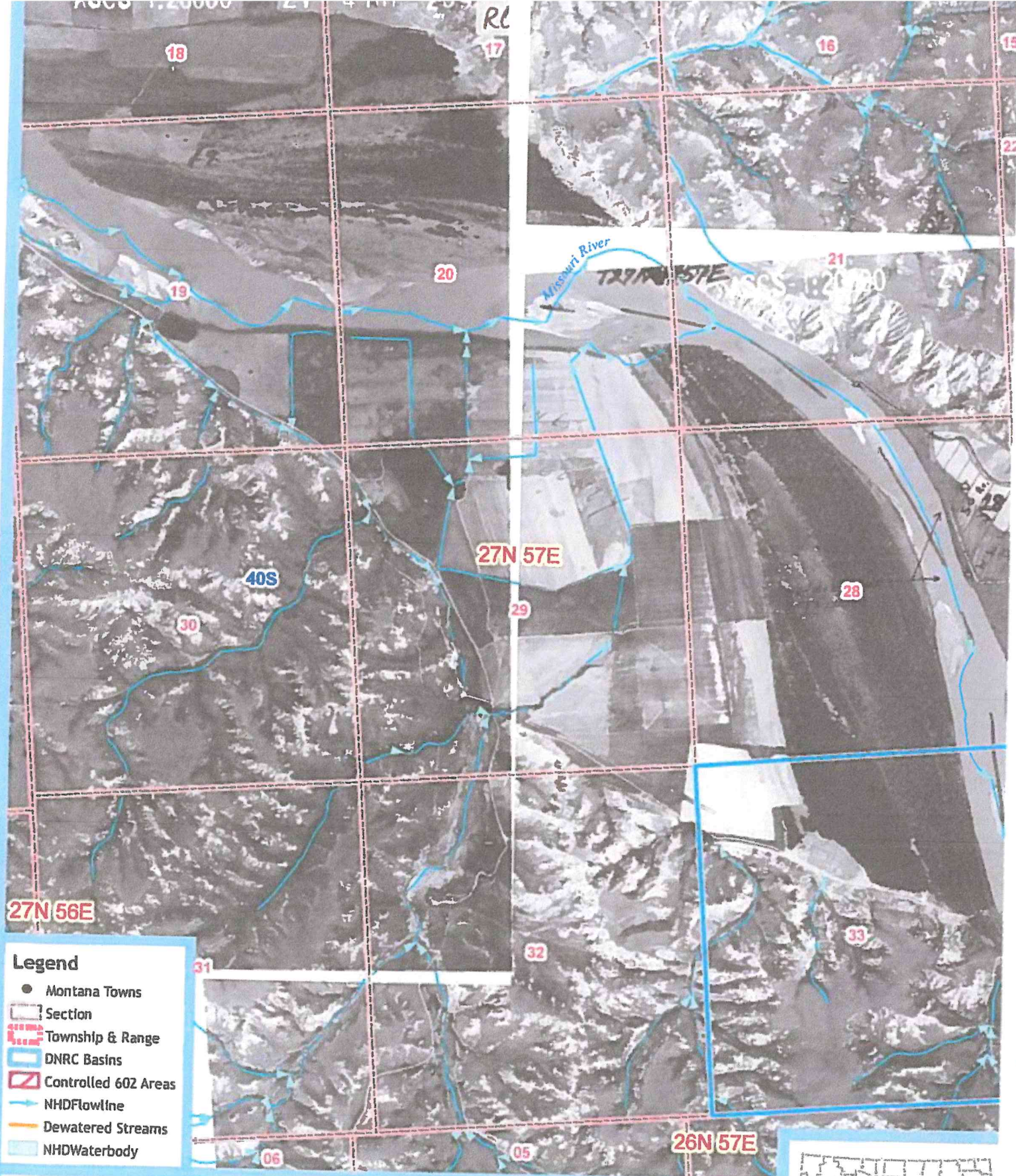
5RB-1800 RPM

SEE TECH SECTION FOR MAXIMUM OPERATING RATINGS



Soil Features Affecting

Symbol	Soil Name & Slope	Cap. Class	Ag. Drainage	Land Level	Irrigation
CeA	Cherry Silty Clay Loam	2e	Well Drained	Deep – Moderate Soil	High – Moderate available water capacity
HaA	Havrelon Silt Loam	2e	Well drained	Deep Soil	High available water capacity
Lo	Lohler Silty Clay	2e	Well drained	Deep Soil	High available water capacity



Legend

- Montana Towns
- Section
- Township & Range
- DNRC Basins
- Controlled 602 Areas
- NHDFlowline
- Dewatered Streams
- NHDWaterbody



1:24,000

Map Created: 3/28/2017 By Todd Netto

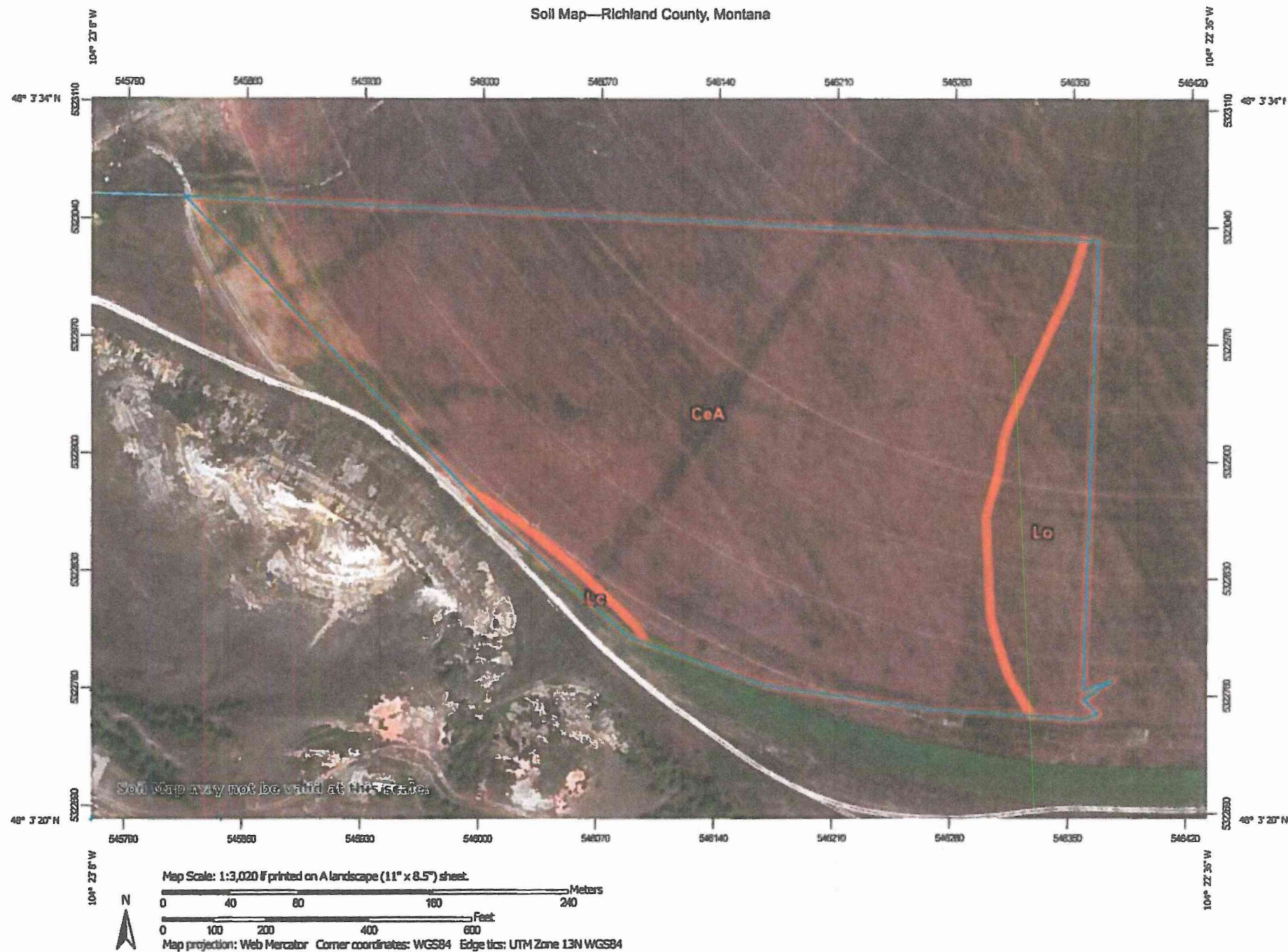
0 0.125 0.25 0.5 Miles



Service Layer Credits: Montana State Library



Soil Map—Richland County, Montana



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

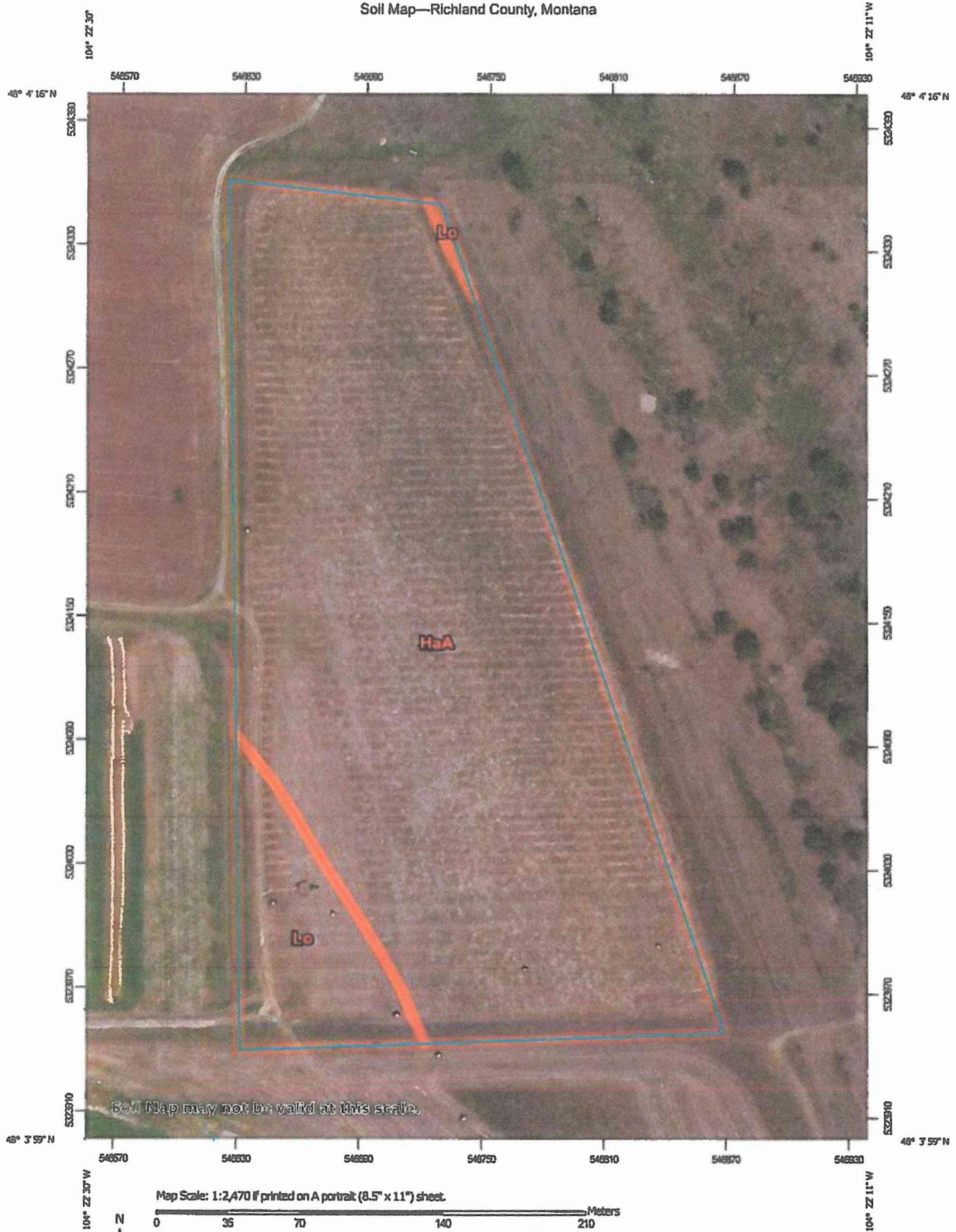
3/7/2018
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CeA	Cherry silty clay loam, 0 to 2 percent slopes	23.9	87.8%
Lc	Lambert-Badland complex	0.3	0.9%
Lo	Lohler silty clay loam	3.1	11.3%
Totals for Area of Interest		27.3	100.0%



Soil Map—Richland County, Montana



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/7/2018
Page 1 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HaA	Havreion silt loam, 0 to 1 percent slopes	15.5	89.0%
Lo	Lohler silty clay loam	1.9	11.0%
Totals for Area of Interest		17.4	100.0%



Richland County Conservation District
F&M Ranch
Reserved Water Application RI-029
Soils Map

20

Lohler silty clay loam

29

Cherry silty clay loam 0-2%

28

27N 57E

Lambert-Badland Complex

Cherry silty clay loam 2-4%

Legend

Proposed Places of Use

Cherry silty clay loam, 0 to 2 percent slopes, Well drained

Cherry silty clay loam, 2 to 4 percent slopes, Well drained

Havrelon silt loam, 0 to 1 percent slopes, Well drained

Lambert-Badland complex, Well drained

Lohler silty clay loam, Well drained

1:20,000

0 0.1 0.2 0.4 Miles

32



HydroSolutions

LOCATION: 27N 57E SECS 20, 21, 28, 29, 33, Richland County
BASEMAP: NAIP 2023 accessed via Montana State Library
FILE LOCATION S:/Projects/DNRC_WaterReservation_Assist_CD/
cd_Projects_ByCounty/RichlandCD/FM_Ranch/GIS
PROJECTION: NAD 1983 (2011) StatePlane Montana FIPS 2500 Intl Ft
MAPPED BY: Teresa E. Olson, September 2025

Vantor, F

IR.1.E We put in 2 new pivots & we need a pump to service them.

IR3A When installed in 1960 all was flooded. In 1980 we put in 309A pivot in mostly sec 29 (see map) Pumping out of canal. In 2008 we put in another pivot so we ran a pipe line to river to service both pivots & a flooded field in SE, SE Sect 20 approx 35A.

IR3B. The pivots are turned on when needed putting down 2 to 3" of water at a time. Generally the flood is ran 3 times using approx 6" per time as needed.

IR3D New 60 HP Pump
Capacity is determined by coring of mtd.

IR3F 309A pivot 1980 105A pivot 2008
Field Level 1983

1R4A With The old pump + New
Pump running we will NOT exceed
our 7000 gpm use.

1R4B we have used this water since
1960 + No one complained

1R4C we use it every year.

1R5D 60 HP float pump with a
60' 10" pipe to hook to underground
pipe line 12"

1R6A = new 60 HP pump approx 1800 gpm

2745 W Holly ST
Sidney, MT 59270

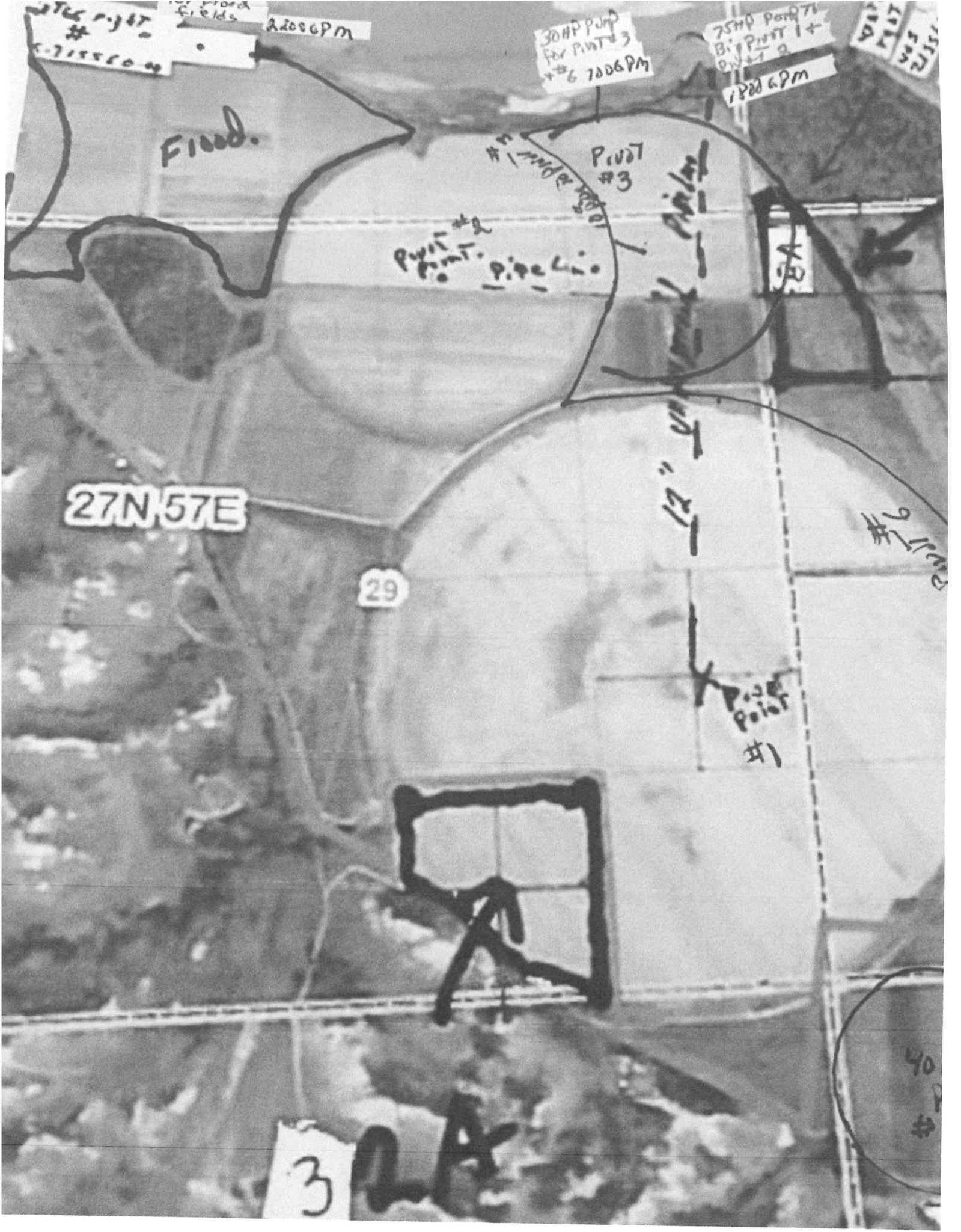
DATE	INVOICE #
3/8/2018	2814

F&M Ranch

FED ID #81-6001636

FED ID #81-6001636		P.O. NO.	TERMS	PROJECT
QUANTITY	DESCRIPTION	RATE		AMOUNT
1	Reserved Water application fee	25.00		25.00
		</		

Phone #	Fax #	E-mail
406-433-2103 x 101	406-433-7351	julie.goss@mt.nacdnet.net



27N57E

29

PINT #1

30 LA

40 #

CONSERVATION DISTRICT RESERVED WATER USE AUTHORIZATION

§85-2-316, MCA

Form No. 102 (Revised 07/2024)

When to use this form:

This form is for the issuance of a Reserved Water Use Authorization.

Conservation District Name: Richland County Conservation DistrictCD Water Reservation No: 8450000

*Upon determination that the criteria for issuance of a reserved water use authorization have been met, this
Authorization is hereby issued to:*

1. Applicant Name: F & M Ranch LLCMailing Address: PO Box 454 City Culbertson State MT Zip 59270Phone Numbers: 406-787-5794 Cell 406-787-5212Email Address: trauma1@yahoo.com2. Authorization Number: RI-029M Internal Priority Date: 7/1/19853. Source of Water Supply: Missouri River

A tributary of _____

4. Total Amount: _____ up to 124.45 acre-ft per Annum5. Period of Use: April 1 Month/Day to Oct 19 Month/Day

6. Point of Diversion:

LOT	¼	¼	¼	SEC	TWP N/S	RGE E/W	COUNTY
NESESE				20	27N	57E	RICHLAND
NWSESE				20	27N	57E	RICHLAND

7. Place of Use:

N = New S = Supplemental

ACRES	LOT	¼	¼	¼	SEC	TWP N/S	RGE E/W	COUNTY	N/S
2.5	3	SW	SW	SW	21	27N	57E	RICHLAND	N
32			SW	SE	29	27N	57E	RICHLAND	N
31			NW	NW	33	27N	57E	RICHLAND	N

8. Means of Diversion: PUMP9. Means of Flow Measurement: FLOW METER

10. Standard and Special Terms, Conditions, Restrictions, and Limitations:

STANDARD TERMS:**Completion:**

The diversion and distribution work for this use shall be completed, and water shall be applied to a beneficial use as specified above, on or before ____ NOVEMBER 1_____, 20 __28____, or within any authorized extension of time. The Notice of Completion of Water Development, Form 106, shall be filed on or before ____ NOVEMBER 1_____, 20 __28_____.

Compliance with Board and Conservation District Rules, Regulations, and Requirements:

Authorization is subject to the order, rules, regulations, and requirements governing the water reservation and the laws of the State of Montana. Further, this Authorization is subject to the administrative rules, regulations, and procedures adopted by the Conservation District governing the water reservations, which by the reference is made a condition of the Authorization.

Control:

The Conservation District has exclusive control over the reservation by the Board. The authorization holder receives no right, title, ownership, control, or interest in the water reservation.

Revocations:

Failure to comply with the provisions of the Authorization including submission of the annual water user report, may result in revocation of the Authorization.

Senior Rights:

This Authorization is subject to all prior existing water rights in the source of supply. Further, this Authorization is subject to any final determination of existing water rights, as provided by Montana law.

Transfer of Authorization:

Upon a change in ownership of all or any portion of land associated with this Authorization, the person receiving the interest shall file a Notice of Transfer of Reserved Water Use Authorization, Form 109, with the Conservation District.

Water Status Annual Report

Notify the Conservation District whether any water had been used under the authorization or not. Complete and submit Water User Annual Status Report, Form 103, by November 1 annually. If the infrastructure for the use of the water have not been completed, give details of progress toward completion and if an extension of time is required, fill out and submit Application for Extension of Time, Form 108, to the Conservation District.

SPECIAL TERMS:

This Authorization is subject to the type of water use measuring device or water use estimation technique required by the Conservation District. The water user shall maintain the measuring device, so it always operates properly and measures flow rate and volume accurately. The water user shall keep written records of the flow rate and volume of water used. Records shall be submitted by November 1 of each year and upon request at

other times during the year. Failure to submit the *Water Use Annual Status Report* (Form 103) may be cause for revocation of this Authorization. The annual status report must be sent to the Conservation District Office.

APPROVAL:

SHAWN CONRADSEN
Chairman Printed Name

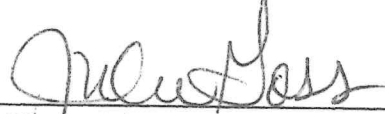
11-21-2025
Date


Chairman Signature

11-21-2025
Date

JULIE GOSS
District Administrator Printed Name

11-21-2025
Date


District Administrator Signature

11-21-2025
Date

STATE OF MONTANA
DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
 1424 9TH AVENUE P.O. BOX 201601 HELENA, MONTANA 59620-1601

GENERAL ABSTRACT

Water Right Number: 40S 30172430 CONSERVATION DISTRICT RECORD **CD Number:** RI-029 M

Version: 1 -- ORIGINAL RIGHT

Version Status: ACTIVE

Owners: F & M RANCH LLC
 C/O TERRIL RAAUM
 PO BOX 454
 CULBERTSON, MT 59218
 RICHLAND COUNTY CONSERVATION DISTRICT
 2745 W HOLLY ST
 SIDNEY, MT 59270

Priority Date: JULY 1, 1985 at 08:00 A.M.

Enforceable Priority Date: JULY 1, 1985 at 08:00 A.M.

Internal Priority Date: MARCH 18, 2018 AT 09:50 A.M.

Purpose (Use): IRRIGATION

Maximum Flow Rate:

Maximum Volume: 124.45 AC-FT

Maximum Acres: 65.50

Source Name: MISSOURI RIVER

Source Type: SURFACE WATER

Point of Diversion and Means of Diversion:

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1		NESESE	20	27N	57E	RICHLAND

Period of Diversion: APRIL 1 TO OCTOBER 19

Diversion Means: PUMP

2		NWSESE	20	27N	57E	RICHLAND
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Period of Diversion: APRIL 1 TO OCTOBER 19

Diversion Means: PUMP

Purpose (Use): IRRIGATION

Irrigation Type: SPRINKLER

Climatic Area: 2 - MODERATELY HIGH

Volume:

Perfected Flow Rate:

Perfected Volume:

Period of Use: APRIL 1 to OCTOBER 19

Place of Use:

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1	2.50	3	SWSWSW	21	27N	57E	RICHLAND

2	32.00	SWSE	29	27N	57E	RICHLAND
3	31.00	NWNW	33	27N	57E	RICHLAND
Total:	65.50					
Geocodes/Valid:	-- NO VALID GEOCODES --					

Remarks:**CONSERVATION DISTRICT REMARK**

NO OVERLAPPING PLACE OF USE, SHARED DIVERSIONS ONLY. THIS AUTHORIZATION PROVIDES WATER USER 100% COVERAGE FOR MISSING VOLUME TO WATER RIGHT 171255-00 (F&M RANCH) AND 215560-00 (STATE LANDS).

CONSERVATION DISTRICT WATER MEASUREMENT

METHOD OF WATER USE MEASUREMENT WILL BE BY FLOWMETER. THE MEASUREMENT OF WATER USED WILL BE RECORDED AND REPORTED TO THE CONSERVATION DISTRICT ANNUALLY BY NOVEMBER 1.



Montana Department of Natural Resources and Conservation
Trust Lands Management Division
Authorization for Temporary Change in Appropriation Right
Consent Form

The lessee proposes to obtain a temporary change in appropriation right to use Richland Conservation District water on school trust land for the duration of the State Lease AG-10540; lease term beginning March 1, 2024 and ending February 28, 2034, and State Lease AG-10576; lease term beginning March 1, 2025 and ending February 28, 2035 pursuant to §§ 8S-2-407 and -441, MCA.

AG-10540 Place of use: SWSE Sec 29 T27N 57E Richland County 32 acres

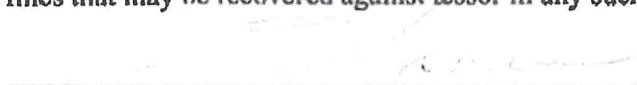
AG-10576 Place of use: SWSWSW Sec 21 T27N R57E Richland County 2.5 acres

TLMD authorizes the lessee to obtain a temporary change in appropriation right to use Richland Conservation District Water described herein on school trust land for the duration of State Leases AG-10540 and AG-10576 pursuant to §§ 8S-2-407 and -441, MCA. TLMD does not assert an ownership or co-ownership interest in the water temporarily being applied. Temporary use of the Richland Conservation District water on the state trust land is not an improvement subject to 77-6-301, MCA, and ARM 36.25.125. Authorization is only for the term of the lease and must be re-applied for at the time of lease renewal.

This approval is made upon the express condition that the lessee shall assume all liability for any injury, property damage or loss by any persons, including such loss to any employee or property of lessee, its agents, or third persons, or to the lessee, from any cause or causes arising from placing the above-described water on state land. Lessee shall indemnify lessor and save, protect, defend, and hold lessor harmless from any and all liability, loss, damage, expense (including legal expenses and reasonable attorney fees), causes of action, suits, claims or judgments arising from injury to person or property or resulting from or based upon lessor's ownership of the property, which is the subject of this lease, from any cause or causes arising from using the above-described water on state land, and shall, at lessee's own cost and expense, defend any and all suits which may be brought against lessor, either alone or in conjunction with others, upon



any such liability or claim(s). Lessee shall satisfy, pay and discharge any and all judgments and fines that may be recovered against lessor in any such action(s).


Lessee Signature

9-22-2025
Date

 LPM
DNRC Area/Unit Office Approval

10-1-2025
Date


DNRCAG & Grazing Bureau Approval

9/29/2025

Da



CITY OF SIDNEY
PUBLIC NOTICE

Notice to Water Users

THE FOLLOWING APPLICATION HAS BEEN SUBMITTED FOR RESERVED WATER USE TO THE RICHLAND COUNTY CONSERVATION DISTRICT.

Remarks

Important Information:

- During the Public Notice of a new Reserved Water Use Authorization application, objections may be submitted for a 30-day period to the Conservation District using Objection to Application for Reserved Water Use Authorization, Form 107. Objections received outside this period will not be accepted or considered valid.

NAME: F&M Ranch LLC

APPLICATION NO: RI-029M

DATE FILED: 3/8/2018

INTERNAL PRIORITY DATE:

7/1/1985

WATER SOURCE: Missouri River

TOTAL AMOUNT: 124.45 AF

PERIOD OF APPROPRIATION:
4/15 to 10/15

DIVERSION POINT: NESESE
and NWSESE SECTION 20,
Township 27N Range 57E

DIVERSION MEANS: 2 Existing Pumps

USE: Irrigation

PLACE OF USE: SWSW
Section 21, SWSE Section
29, NWNW Section 33, all in
Township 27N Range 57E

COMMENTS OR

OBJECTIONS to the issuance of an authorization under this application must be received by the Richland County Conservation District, 2745 W Holly ST, Sidney, MT 59270, 406-943-3001, on or before October 31, 2025. Objection forms are available from the Richland County Conservation District. The Conservation District will review this application and any objections at the November 13, 2025, meeting at 4:00 PM, at the district office.

Assistance or questions regarding this application should be directed to the Richland County Conservation District, 2745 W Holly ST, Sidney, MT 59270, 406-943-3001.

MNAXLP

(Publish October 1, 2025.)

Debbie Schieffler, being first duly sworn, deposes and says that she is the agent to the Publisher of The Roundup Newspaper printed and published one day a week in the City of Sidney, County of Richland, State of Montana. That the notice, a copy of which is hereto attached and submitted by:

Richland County Conservation District
Julie Goss, Administrator
2745 West Holly Street
Sidney, MT 59270

was printed and published in the regular and entire issue
of said The Roundup, 111 West Main, Sidney, MT 59270,
406-433-3306 for

1 issue(s), that said publication was made on each of the following dates to with:

October 1, 2025

It was also published in said paper

2025

It was also published in said paper

It was also published in said paper.

It was also published in said paper

2025

Debbie Schieffer

State of Montana)

SS

County of Richland)

Subscribed and sworn to before me this

1 day of October, 2025

Madison Kay Dotson
Notary Public for the State of Montana



MEAGAN KAY DOTSON
NOTARY PUBLIC for the
State of Montana
Residing at
Sidney, Montana
My Commission Expires
April 25, 2029

PUBLIC NOTICE
Notice To Water Users

THE FOLLOWING APPLICATION HAS BEEN SUBMITTED FOR RESERVED WATER USE TO THE **RICHLAND COUNTY CONSERVATION DISTRICT**.

Remarks

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Township 27N Range 57E

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USE: Irrigation

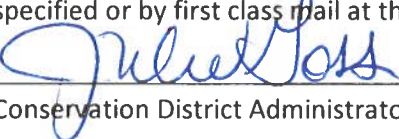
PLACE OF USE: SWSW Section 21, SWSE Section 29, NWNW, Section 33, all in
Township 27N Range 57E

COMMENTS OR OBJECTIONS to the issuance of an authorization under this application must be received by the Richland County Conservation District, 2745 W Holly ST, Sidney, MT 59270, 406-943-3001, on or before November 12, 2025. Objection forms are available from the Richland County Conservation District. The Conservation District will review this application and any objections at the November 13, 2025, meeting at 4:00 PM, at the district office.

Assistance or questions regarding this application should be directed to the Richland County Conservation District, 2745 W Holly ST, Sidney, MT 59270, 406-943-3001.

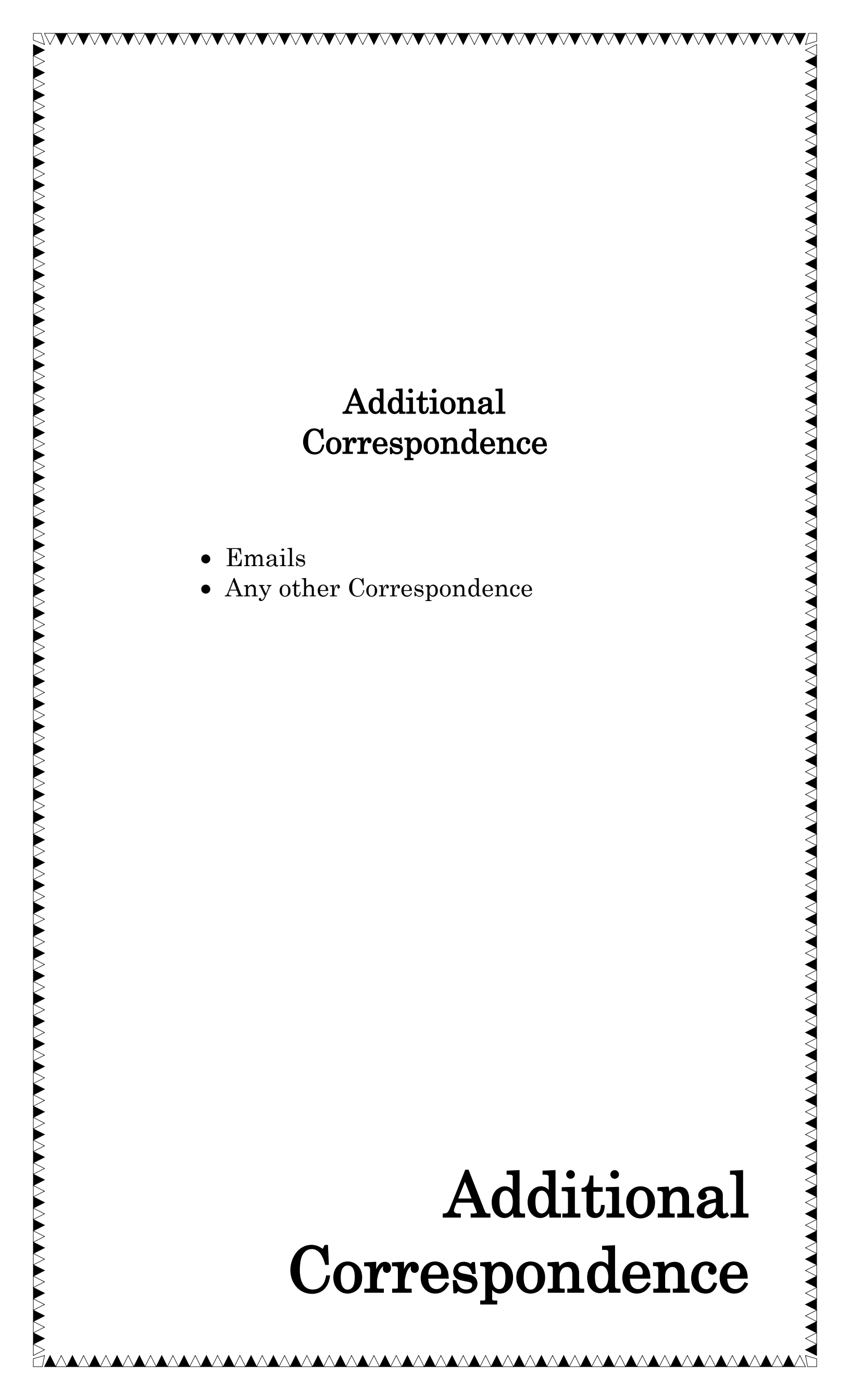
CERTIFICATE OF SERVICE – MISSOURI

This certifies a true and correct copy of the public notice for the Conservation District Reserved Water Use Application number RI-029M was served upon all individuals listed below. Notices were served as specified or by first class mail at the addresses shown.


Conservation District Administrator

9-29-2025
Date

MT Department of Environmental Quality DEQ Headquarters ATTN: Water Quality Division 1520 East Sixth Avenue Helena, MT 59601	Bureau of Indian Affairs Rocky Mountain Regional Office ATTN: Water Rights and Resources 2021 4 th Avenue North Billings, MT 59101
US Fish & Wildlife Service Montana Fish and Wildlife Conservation Office 4052 Bridger Canyon Road Bozeman, MT 59715	Bureau of Reclamation Montana Area Office PO Box 30137 Billings, MT 59107-0137
MT Department of Fish, Wildlife and Parks ATTN: Fisheries Division 1420 East Sixth Avenue PO Box 200701 Helena, MT 59620-0701	US Department of the Interior Billings Field Office ATTN: Office of the Solicitor 2021 4 th Avenue North, Suite 112 Billings, MT 59101-1405
MT Department of Fish, Wildlife and Parks Region 6 ATTN: Fisheries Division 1 Airport Road Glasgow, MT 59230	Fort Peck Tribes ATTN: Water Resources Office PO Box 1027 Poplar, MT 59255
MT Department of Natural Resources and Conservation Glasgow Regional Office PO Box 1269 Glasgow, MT 59230-1269	Roosevelt County Conservation District PO Box 517 Culbertson, MT 59218
Montana-Dakota Utilities Co 5181 Southgate Dr. Billings, MT 59101	Copy for Conservation District
US Army Corps of Engineers Fort Peck, MT 59223	Copy for the Applicant: F&M RANCH, %TERRIL RAAUM PO BOX 454 CULBERTSON, MT 59218



Additional Correspondence

- Emails
- Any other Correspondence

Additional Correspondence