Missoula Water Resources Regional Office
PO Box 5004
2705 Spurgin Road, Bldg. C
Missoula, MT 59806-5004
(406) 721-4284

January 8, 2026
Town of Stevensville
206 Buck St
Stevensville, MT 59870-2021
Subject: Correct and Complete Application for Change No. 76H 30170801

Dear Applicant,

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

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

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

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

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

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

Sincerely,

Benjamin Thomas

Benjamin Thomas
Water Conservation Specialist II
Missoula Regional Office
benjamin.thomas@mt.gov | (406) 542-5883

cc: Jared Bean, Geosyntec

APPLICATION TO CHANGE A WATER RIGHT

§ 85-2-302, MCA

Form No. 606 *(Revised 10/2025)*

For Department Use Only

RECEIVED

DEC 24 2025

MONTANA D.N.R.C
MISSOULA REGIONAL OFFICE

Application # 30170801 Basin 76H
Priority Date _____ Time 9:20 AM/PM
Rec'd By BT
Fee Rec'd $ 1500.00 Check # _____
Deposit Receipt # WRT 2612488
Payor Town of Stevensville
Refund $ 500.00 Date 1-8-2026

FILING FEE

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

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

- **Replacement well greater than 200 feet from original**
- **Replacement reservoir on the same source**

INFORMATION

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)). If application is eligible for a filing fee reduction, $500 paid for Form 606P-B will be credited toward filing fees shown above.

Applicant Information: *Add more as necessary.*

Applicant Name Town of Stevensville
Mailing Address 206 Buck St City Stevensville State MT Zip 59870
Phone Numbers: Home _____ Work 406.777.5271 Cell _____
Email Address mayor@townofstevensville.gov

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

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

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

Contact/Representative is: ☐ Applicant ☑ Consultant ☐ Attorney ☐ Other
Contact/Representative Name Jared Bean, Geosyntec
Mailing Address 15 W 6th Ave, Suite 4G City Helena State MT Zip 59601
Phone Numbers: Home _____ Work 406.215.9917 Cell _____
Email Address jared.bean@geosyntec.com

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

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

PREAPPLICATION AND TECHNICAL ANALYSES INFORMATION

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

2. ☑ **Y** ☐ **N** Did you have a preapplication meeting AND complete a Change Preapplication Meeting Form Part A and Part B (Form 606P-A and 606P-B)?

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

2.a. ☐ **S** Submit the Technical Analyses Addendum (Form 606-TAA).

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

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

2.c. ☐ **Y** ☑ **N** Has any element of the project described in this application changed from the mandatory elements of the project described in the completed Form 606P? **If yes,**

2.c.i. Please explain.

_____

_____

_____

_____

_____

_____

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

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

2.d.i. Please explain.

_____

_____

_____

_____

_____

2.d.ii. ☐ **S** Submit the Technical Analyses Addendum (Form 606-TAA).

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

2.e.i. ☐ **S** Submit the technical analyses.

APPLICATION ADDENDA AND REVIEW

3. ☐ **S** ☑ **NA** If the proposed change involves one or more places of storage, submit a Change Storage Addendum (Form 606-SA). This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).

4. ☐ **S** ☑ **NA** If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, submit a Reasonable Use Addendum (Form 606-B).

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

6. ☐ **S** ☑ **NA** If the proposed purposes include marketing or selling water, submit a Water Marketing Purpose Addendum (Form 600/606-WMA). This doesn't include marketing for mitigation/aquifer recharge.

7. ☐ **S** ☑ **NA** If the proposed purpose includes instream flow, submit a Change to Instream Flow Addendum (Form 606-IFA).

8. ☐ **S** ☑ **NA** If the proposed purposes include mitigation, aquifer recharge, or marketing for mitigation/ aquifer recharge, submit a Mitigation Purpose Addendum (Form 606/606-MIT).

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

10. ☐ **S** ☑ **NA** If you propose to add a point of diversion or place of use on State of Montana Trust Land, submit documentation of consent from DRNC Trust Lands Management Division. If you propose to add a place of use on Trust Land with all points of diversion on private land, then, at a minimum, that component of the change authorization will be temporary for the duration of the lease term (§ 85-2-441, MCA).

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

APPLICATION DETAILS

12. How many change applications will be needed for this project? Refer to ARM 36.12.1305 for more information. 1

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

Water Right No.	**Current Authorized Flow Rate**			**Flow Rate Needed for Project**			**Means of Diversion**
	Flow	*GPM*	*CFS*	*Flow*	*GPM*	*CFS*	
76H 89376-00	500	☑	☐	500	☑	☐	Wells 1, 2, 3, 6
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	

14. Is the source surface water or groundwater? Groundwater

15. What is the source name? Groundwater

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

Water Right No.	76H 89376-00				
Point of Diversion	☑	☐	☐	☐	☐
Place of Use	☑	☐	☐	☐	☐
Purpose of Use	☐	☐	☐	☐	☐
Place of Storage	☐	☐	☐	☐	☐

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

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

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

IF YES,

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

POD ID	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged
See	Att	1											

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

POD ID	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot

19.c. What is the means of diversion for all *new* PODs? Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

Wells

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

IF YES,

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

NA	

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

Acres	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County
See Att. 1								
	Total							

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

IF YES,

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

IF YES,

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

See Att. 1

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

Water Right No.	**Avg. Period of Diversion**	**Avg. Period of Use**	**Flow Rate**			**Volume Contributed**
	MM/DD-MM/DD	*MM/DD-MM/DD*	*Flow*	*GPM*	*CFS*	*AF*
See Att. 1				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

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

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

IF QUESTION 23 IS NO,

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

IF QUESTION 23.a IS NO,

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

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

IF QUESTION 23.a.ii IS YES,

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

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

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

IF QUESTION 23.a.iii IS NO,

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

ADVERSE EFFECT

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

See Att. 1

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

See Att. 1

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

26.a. If yes, explain.

See Att. 1

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

See Att. 1

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

28.a. If yes, list the sources.

29. When was the last time each water right proposed for change was appropriated and used beneficially?
See Att. 1

IF THERE HAS BEEN A PERIOD OF NONUSE,

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

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

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

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

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

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

See Att. 1

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

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

See Att. 1

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

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

ADEQUATE MEANS OF DIVERSION AND OPERATION

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

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

See Att. 1

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use.

See Att. 1

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

35.a. If yes, explain.

See Att. 1

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

See Att. 1

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

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

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

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

See Att. 1

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

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

IF YES,

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

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

See Att. 1

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

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

BENEFICIAL USE

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

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

Not applicable

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

See Att. 1

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

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

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

42.a.i. ☐ **S** If yes, submit the COSA.

POSSESSORY INTEREST

43. ☑ **Y** ☐ **N** Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802 and § 85-2-402(2)(d), MCA? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use, and applications for the purposes of instream flow, mitigation, and marketing for mitigation.

43.a. If yes, explain.
See Att. 1

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

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

PROPOSED COMPLETION PERIOD

45. How many years will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 618)? See Att. 1

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

AFFIDAVIT & CERTIFICATION

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

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

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

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

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

Printed Name bob michalson

Applicant Signature Signed by: 4146A2857DE64B9... Date: 12/24/2025

Printed Name _____

Applicant Signature _____ Date: _____

Printed Name _____

Applicant Signature _____ Date: _____

Missoula Water Resources Regional Office
PO Box 5004
2705 Spurgin Road, Bldg. C
Missoula, MT 59806-5004
(406) 721-4284

October 21, 2025
Town of Stevensville
PO Box 30
Stevensville, MT 59870
Subject: Complete Preapplication Form for Change Application No. 76H 30170801

Dear Applicant,

The Missoula Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form and preapplication meeting fee on October 17, 2025, and the Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on October 21, 2025.

As designated on the submitted Preapplication Meeting Form per § 85-2-302(3)(b), MCA, the Department will produce the technical analyses based on the parameters included in the Preapplication Meeting Form (ARM 36.12.1302(4)) within 45 days of October 21, 2025.

Please let me know if you have any questions.

Sincerely,

Benjamin Thomas

Benjamin Thomas
Water Conservation Specialist II
Missoula Regional Office
Benjamin.thomas@mt.gov | (406) 542-5883

cc: Jared Bean, Aspect Consulting

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PREAPPLICATION MEETING FORM: PART B
CHANGE

§ 85-2-302(3)(b), MCA
Form No. 606P-B *(Revised 02/2025)*

For Department Use Only

Application # 30170801 Basin 76H
Form Received 10-17-2025
Fee Rec'd $ 500 Check #
Deposit Receipt # WRI 2607114
Payor Town of Stevensville
Form Returned
Refund $ Date

RECEIVED
OCT 17 2025
MONTANA D.N.R.C
MISSOULA REGIONAL OFFICE

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 606P-A). The Applicant may not alter Form 606P-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 606P-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 606P-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 606P-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 606P-A?

   If yes,

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

3. ☑ **Y** ☐ **N** Are you submitting amended responses to any questions from Form 606P-A?

If yes,

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

Question No.	Question No.	Question No.	Question No.
3			
8			
9			
10			
13.a.ii			
72			

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FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"I attest that this preapplication meeting form (Form 606P-A and Form 606P-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))."

Stephen Lassiter 10/17/2025

Applicant Signature Date

Applicant Signature Date

"We confirm that the preapplication form (Form 606P-A and Form 606P-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))."

Jim Nave 10/21/2025

Department Signature Date

Department Signature Date

Docusign Envelope ID: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85

TOWN OF STEVENSVILLE
76H 30170801 "WELL 1" CHANGE APPLICATION
FORM 606P-B AMENDED RESPONSES
10/17/2025

3) "Which water right(s) are proposed for change?"

Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion
	Flow	GPM	CFS	Flow	GPM	CFS	
76H 89376-00	500	x		500	x		Wells 1, 2, 3, 6

8) "Submit a historical use map…"

See attached Figure 1.

9) "Submit a proposed use map…"

See attached Figure 1.

Attached Figure 2 provides an overview of the full municipal system, for reference.

10) "Does the change involve a change in point of diversion?"

Y

a. "If yes, describe the location for all new and unchanged points of diversion to the nearest 10 acres. Label POD ID with the POD ID assigned for the proposed use map (question 9)."

POD ID	1/4	1/4	1/4	Sec	Twp	Rge	County	Lot	Block	Tract	Sub-division	Gov. Lot	New or Unchanged
Well 1	SW	NE	NE	27	9N	20W	Ravalli						Unchanged
Well 2	SW	NW	SE	27	9N	20W	Ravalli						Unchanged
Well 3	NW	SW	SE	27	9N	20W	Ravalli						Unchanged
Well 5	NW	NE	NE	35	9N	20W	Ravalli						New
Well 6	NW	NE	NE	35	9N	20W	Ravalli						Unchanged
Well 7	NW	NE	NE	35	9N	20W	Ravalli						New

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13.a.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."

Acres	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County
		S2 S2			23	9N	20W	Ravalli
					26	9N	20W	Ravalli
		SE			27	9N	20W	Ravalli
		S2 NE			27	9N	20W	Ravalli
		NE NE			27	9N	20W	Ravalli
		E2 NW NE			27	9N	20W	Ravalli
		SW NW NE			27	9N	20W	Ravalli
		S2 NE NW			27	9N	20W	Ravalli
		SW NW			27	9N	20W	Ravalli
		SE NW NW			27	9N	20W	Ravalli
		NE SW NW			27	9N	20W	Ravalli
		SE SW NW			27	9N	20W	Ravalli
		E2 SW			27	9N	20W	Ravalli
		NE			34	9N	20W	Ravalli
		E2 NW			34	9N	20W	Ravalli
		NE SW			34	9N	20W	Ravalli
		N2 SE			34	9N	20W	Ravalli
		N2			35	9N	20W	Ravalli
		N2 S2			35	9N	20W	Ravalli

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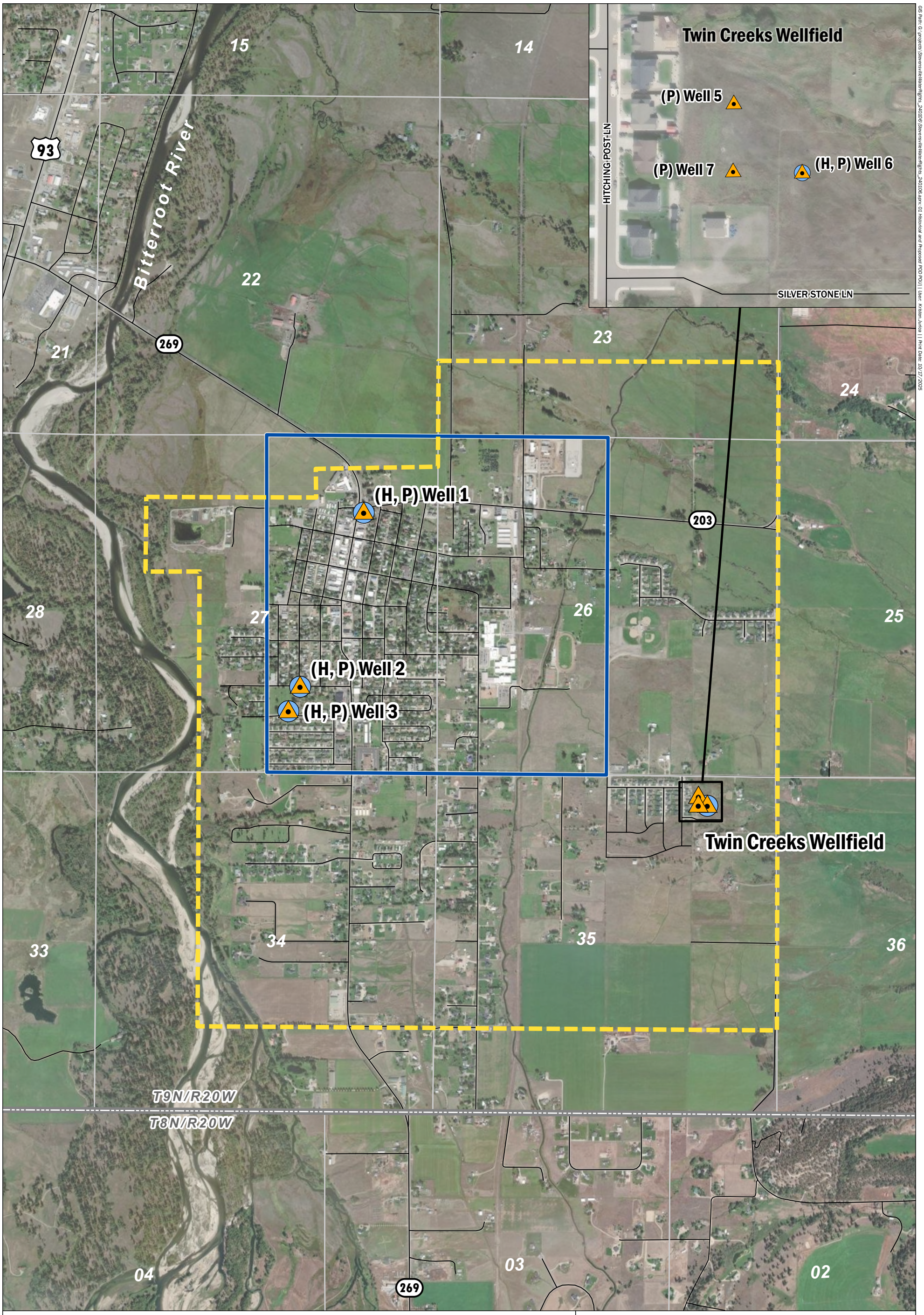
72.) "What is the flow rate (GPM or CFS), volume (AF), and period of diversion (MM/DD-MM/DD) required at each new well/pumping pit ("new") or existing well/pumping pit that is added by the change ("existing")? If the well/pumping pit is not yet constructed, use the estimated volume based on question 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 new or an existing well added by the change."

POD ID	GWIC ID (if available)	Flow Rate	Volume	Period of Diversion	Depth	Measured or Estimated	New or Existing
		GPM	AF	MM/DD-MM/DD	FT		
Well 1	174876	500	805	1/1-12/31	455	Measured	Existing
Well 5	244440			1/1-12/31	430	Measured	New
Well 6	272191			1/1-12/31	432	Measured	Existing
Well 7	272197			1/1-12/31	435	Measured	New
Well 2	60170 / 299683	0	114.86	1/1-12/31	56	Measured	Existing
Well 3	60172 / 299680			1/1-12/31	75	Measured	Existing

The total volume presented in the table matches the current permitted volume. Wells 2 and 3 were abandoned in 2018, and the Town intends to create either replacement wells, or redundant wells, or a change application on water rights associated with Wells 2 and 3. The Town intends to maintain the volume associated with Wells 2 and 3 under this permit.



Historical (H) Points of Diversion (Wells 1, 2, 3, 6)

Proposed (P) Points of Diversion (Wells 1, 2, 3, 5, 6, 7)*

Historical (H) Place of Use

Proposed (P) Place of Use

* Wells 2 and 3 were abandoned in 2018; change application(s) in-preparation

Township and Range Boundary

Section Boundary

Notes:
- Permit 76H 89376-00 has three authorized points of diversion (Wells 1, 2, and 3); this analysis includes only the Well 1 portion of 76H-89376-00.

N

0 700 1,400 Feet

Historical and Proposed Points of Diversion and Places of Use

Change No. 76H 30170801
Unperfected Permit 76H 89376 00
Town of Stevensville, Montana

DRAFT

Aspect A Geosyntec Company	OCT-2025	BY: JB / KMJ	FIGURE NO. 1
	PROJECT NO. 240106	REVISED BY: --- / ---	

Data source credits: NewFields, Ravalli County | | Basemap Service Layer Credits: Maxar, Microsoft, Maxar

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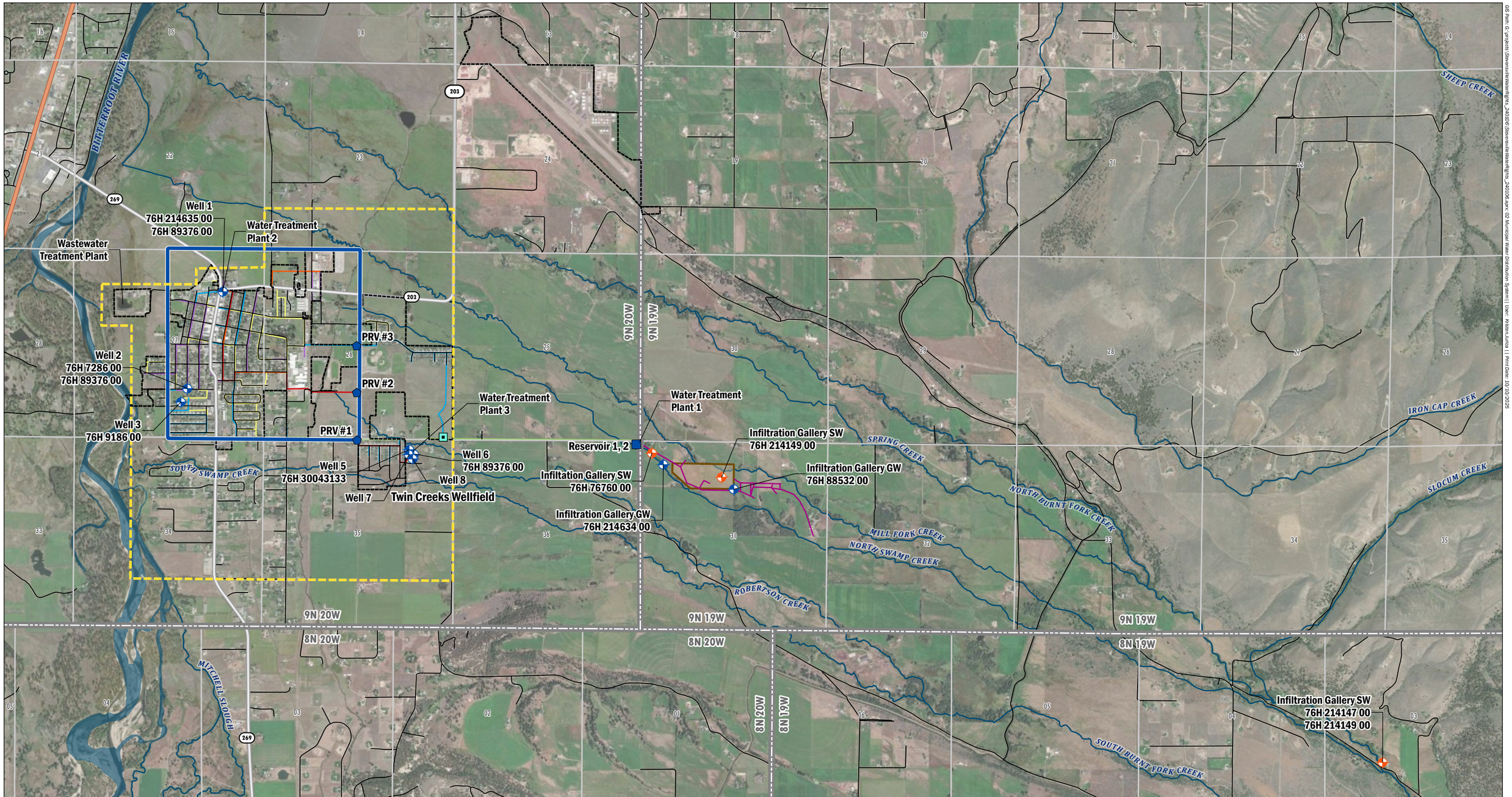

- Groundwater Point of Diversion
- Surface Water Point of Diversion
- Proposed (P) Place of Use
- Historical (H) Place of Use
- Town-Owned Parcel (Geocode 13-1765-31-1-01-13-0000)

Key Water Structures

- PRV
- Pump Station
- Water Tank

Water Mains

Diameter (inches)

- 2-4"
- 6"
- 8"
- 10"
- 12"
- 16"
- Infiltration Gallery Conveyance Line
- Town Limits (as of 2019)
- Township and Range Boundary
- Section Boundary

Note:
- Infiltration Gallery Conveyance Lines digitized from Town of Stevensville Infiltration System Map, estimated production 1938.

N

0 1,300 2,600 Feet

Municipal Water Distribution System

Form 606P-B, Change No. 76H 30170801
Stevensville, Montana

DRAFT

Aspect, A Geosyntec Company	OCT-2025	BY: JB / KMJ	FIGURE NO. 2
	PROJECT NO. AS240106	REVISED BY: ---/---	

Data source credits: NewFields, Ravalli County || Basemap Service Layer Credits: Earthstar Geographics

GIS Path: G:\projects\Stevensville\WaterRights_240106.aprx; 02 Municipal Water Distribution System || User: Kristen.Lurica || Print Date: 10/10/2025

Docusign Envelope ID: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85

TOWN OF STEVENSVILLE
76H 30170801 "WELL 1" CHANGE APPLICATION
FORM 606P-B FOLLOW-UP RESPONSES
10/17/2025

13.a.iii) "Do other water rights supplement or overlap the historical and/or proposed place of use?"

Y

Table 1 summarizes the Town of Stevensville's municipal purpose water rights. All the rights contribute to a manifold distribution system, and therefore all the rights are supplemental.

Table 1. Stevensville's Municipal Purpose Water Rights

A	B	C	D	E	F	G	H	I	G	H	I	J	K	L	M
1	Water Right		Diversion Name	Source	Source Name	Type	Purpose	Period of Diversion	Period of Use	Enforceable Priority Date	Max. Flow (cfs)	(gpm)	Max. Volume (af/y)	Additive Flow (gpm)	Additive Volume (af/y)
2	76H 214634 00		IG - GW	GROUNDWATER	NORTH SWAMP CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	0.77	345	555.93	345.30	555.93
3	76H 88532 00	A	IG - GW	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	2/25/1994	0.77	345	556.97	0.00	0.00
4	76H 214147 00		IG - SW	SURFACE	BURNT FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	2.50	1122	1120.00	1,122.00	1,120.00
5	76H 214149 00		IG - SW	SURFACE	BURNT FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.25	561	900.00	561.00	900.00
6	76H 214649 00		IG - SW	SURFACE	MILL FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.25	561	905.00	561.00	905.00
7	76H 76760 00	B	IG - SW	SURFACE	NORTH SWAMP CREEK	PP	MUNICIPAL	10/15-4/15	10/15-4/15	1/28/1990	0.75	338	272.20	0.00	0.00
8	76H 30043133	C	Well 5	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	9/3/2008	0.67	300	96.30	300.00	96.30
9	76H 214635 00		Well 1	GROUNDWATER	GROUNDWATER	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.11	498	805.00	498.17	805.00
10	76H 7286 00		Well 2	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	1/23/1976	0.53	240	40.00	240.00	40.00
11	76H 9186 00		Well 3	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	8/13/1976	0.49	220	340.00	220.00	340.00
12	76H 89376 00	D	Wells 1, 2, 3, 6	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	3/28/1994	1.11	500	919.86	0.00	114.86
13	Total													***3,847.5***	***4,877.1***

IG = Infiltration Gallery, GW = groundwater, SW = surface water
PP = Provisional Permit, SC = Statement of Claim
af/y = acre-feet per year, cfs = cubic feet per second, gpm = gallons per minute
[A] Associated with 76H 214634 00.
[B] Associated with IG rights 76H 214147 00, 76H 214149 00, & 76H 214649 00.
[C] Subject to mitigation plan.
[D] Associated with 76H 214635 00 plus extra volume for Wells 2 and 3.

13.a.iii.1.a) "If yes, [how] were the water rights operated to serve the historical purposes and how will they be operated to serve the proposed purposes?"

The Town of Stevensville (Town) first put water to municipal use in 1909.

In summary, the Town has experienced five phases of municipal supply source modifications:

- Phase 1 (1909-1930s)
  - Sole source of water was direct surface water to Reservoir 1.
- Phase 2 (1930s-1970)
  - Primary source of water was the Infiltration Gallery; supplemental supply was from surface water and also from Wells 1 and 2 as they came online.
- Phase 3 (1970-1979)

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    - Primary source of water changed from Infiltration Gallery to Well 1 for water quality reasons; supplemental supply was from Wells 2 and 3 and also from Infiltration Gallery and surface water.
- Phase 4 (1979-2014)
    - After construction of Water Treatment Plant 1 in 1979, primary source reverted back to the Infiltration Gallery to use the lower operational cost gravity-fed system. Supplemental supply was from Wells 1, 2, and 3, and also from surface water. By the mid 1990's, the Town had to pump Wells 1, 2, and 3 almost full time to meet demand.
- Phase 5 (2014-present)
    - Primary source of water transitioned to the Twin Creeks Wellfield (Wells 5, 6, 7, 8; treated at Water Treatment Plant 3). In the Twin Creeks Wellfield, only Wells 5 and 6 currently have water rights. Supplemental sources of municipal supply are Well 1 (treated at wellhead); the Infiltration Gallery (treated at Water Treatment Plant 1); and surface water (originally diverted directly to Reservoir 1; later used to increase supply to the Infiltration Gallery). Wells 2 and 3 were supplemental sources of municipal supply until abandonment in 2018; the Town is preparing change application(s) for water rights associated with Wells 2 and 3.

In recent decades, the Town has worked to reduce water demand by implementing irrigation restrictions, fixing leaks, adding meters (including to all service connections), and increasing service rates.

Table 2 presents a timeline of construction of various municipal water facilities and summarizes historic use of the supplemental municipal water rights. Table 3 lists all the diversion, treatment, and reservoir facilities, including operational date ranges, metering status, and notes about consumptive use.

The proposed change will add pumping rate and volume authorizations to Wells 5 and 7. Following the change authorization, Wells 5, 6, and 7 will be the primary sources, all with water right authority. This change will allow water right 76H 89376 00 to serve an expanded place of use (see Amended Response 13.a.ii and Figure 1 of Amended Responses) from the manifold distribution system. Supplemental sources will continue to include Well 1; the Infiltration Gallery; and surface water. After this change authorization, the Town intends to 1) change the Wells 2 and 3 rights points of diversion and places of use, and 2) change the Infiltration Gallery (surface and groundwater) rights to mitigation for new permit(s).

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Table 2. Timeline of Municipal Water Facility Construction Events

Date	Facility	Municipal Use Summary
1909	Reservoir 1 constructed	Sole source is surface water diversions from North Swamp Creek and Mill Creek.
1930	Infiltration gallery constructed; conveys to Reservoir 1	Primary source is Infiltration Gallery; supplemental source is direct surface water.
Late 1950s - early 1960s	Reservoir 2 constructed; receives water from Infiltration Gallery and surface water; Reservoir 1 remains intact but unused	
Late 1960s	Chlorination of Reservoir 2 started	
1957	Well 1 constructed; pumps directly to distribution system; eventually chlorinated at the wellhead (Water Treatment Plant 2)	1957-1970: Primary source is the Infiltration Gallery. Supplemental sources include direct surface water (especially when low turbidity), Well 1, Well 2. (Infiltration Gallery is the preferred source because gravity fed and lowest cost to run. Direct surface water is a preferred source, especially when low turbidity, because gravity fed and low cost to run. Wells are the most expensive to run due to pumping power costs, but water quality is good and consistent.) 1970-1979: Primary source is Well 1 for water quality reasons, until Water Treatment Plant 1 finished construction in 1979. Other sources supplemental. 1979-2014: Primary source is Infiltration Gallery, for low operational cost reasons. Other sources supplemental.
1968	Well 2 constructed; pumps directly to distribution system	
1974	Well 3 constructed; pumps directly to distrubtion system	
1979	Water Treatment Plant 1 constructed (for Infiltration Gallery water) adjacent to Reservoir 2; consisted of rapid sand filter and chlorination (chlorination started in late 1960s); treats Infiltration Gallery water (surface and groundwater sources) and discharges to Reservoir 2	
	Reservoir 2 roof constructed	
	10-inch water main constructed from Reservoir 2 to Town	
2008	Well 5 constructed	2014-present: Twin Creeks Wellfield becomes primary municipal source; pumping rates monitored by SCADA system. Other sources supplemental and backup. Wells 2 and 3 abandoned in 2018; change application(s) in preparation.
2012	Well 6 constructed	
	Well 7 constructed	
2013	Well 8 constructed	
2013	Water Treatment Plant 3 constructed to treat Twin Creeks wellfield water and transmit to Reservoir 2	
2018	Wells 2 and 3 abandoned	

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Table 3. Summary of Facilities, Operation Periods, and Municipal Use

Facility	Operational Period	Meter Status	Municipal Use Notes
Surface water diversions	1909-present	Meter data unavailable	Sole source from 1909 to 1930s
Infiltration Gallery – shallow groundwater	1930s-present		Primary source starting in 1930s
Well 1	1957-present	Meter data unavailable	1957-1970: supplemental source; 1970-1979: primary source; 1979-present: supplemental source
Well 2	1968-2018	Not metered	1968-2018: supplemental source; change applications in preparation
Well 3	1974-2018	Not metered	1974-2018: supplemental source; change applications in preparation
Well 5	2008-present	SCADA, totalizing flowmeter	Primary sources starting in 2014
Well 6	2012-present	SCADA, totalizing flowmeter	
Well 7	2012-present	SCADA, totalizing flowmeter	
Well 8	2013-present	SCADA, totalizing flowmeter	
Water Treatment Plant 1	1979-present	Meter data unavailable	Receives water from Infiltration Gallery and surface water; covered (no evaporation)
Water Treatment Plant 2	Unknown-present	Not metered	Treats Well 1 water; covered (no evaporation)
Water Treatment Plant 3	2014-present	SCADA, totalizing flowmeters	Treats Wells 5, 6, 7, 8 water; covered (no evaporation)
Reservoir 1	1909-early 1960s	Not metered	Received water from Infiltration Gallery and surface water; uncovered (evaporation from surface area of 1,500 feet^2)
Reservoir 2	Late 1950s/early 1960s-present	Meter data unavailable for Infiltration Gallery and direct surface	Receives water from Infiltration Gallery, surface water, and Wells 5, 6, 7, 8; uncovered until 1979 (evaporation from surface area of 9,500 feet^2)
Wastewater Treatment Plant	Unknown-present	Meter data available	Unknown-1979: Facility operated as a controlled discharge lagoon. 1979: Facility began operation as a mechanical treatment plant. Upgrades included biological treatment in oxidation ditch, final sedimentation, aerobic solids digestion, and solids storage in sludge drying beds. 1998: Major improvements constructed, including new secondary clarification units, new aerobic digestion facility and blower building copmlex, and additional sludge drying beds. [1]

[1] https://www.townofstevensville.com/sites/default/files/fileattachments/public_works/page/2061/2008_ww_per.pdf

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13.a.iii.1.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")."

Table 2 presents a timeline of construction of various municipal water facilities and summarizes historic use of the supplemental municipal water rights. Table 3 lists all the diversion, treatment, and reservoir facilities, including operational date ranges, metering status, and notes about consumptive use. Table 4 summarizes 1994 system diversions and water use. Table 5 summarizes 2020-2024 system diversions.

The Infiltration Gallery rights contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. Prior to 2014, the infiltration gallery rights were the primary source of water for the Town. Since 2014 and construction of the Twin Creeks Wellfield (Wells 5, 6, 7, and 8), the Infiltration Gallery system is backup supply. After this change authorization, the Infiltration Gallery rights will be changed to mitigation for new permits. Table 4 summarizes estimated 1994 historical use based on data presented in the 2014 change application 76H 30070414.

The Well 1 and 6 right (76H 89376 00) contributes to historical use and is the subject of this change application.

The Well 2 and 3 rights contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. From installation until abandonment in 2018, Wells 2 and 3 were primarily backup supply sources. The Town is preparing change application(s) for water rights associated with Wells 2 and 3. Table 4 summarizes estimated 1994 historical use from data presented in the 2014 change application 76H 30070414.

The Well 5 water right contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. After the change authorization, Well 5 will continue to use 76H 30043133 as authorized. Table 5 and Figure 1 summarize historical use from 2020-2024.

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Table 4. 1994 Use Estimates by PCI in 2014 Change Application 76H 30070414

Source	Days/Year	Hours/Day	Flowrate (gpm)	Diverted (acre-feet)		Authorized (acre-feet)	
Water Treatment Plant 1 (Infiltration Gallery surface and groundwater sources)	365	24	345.3	660.36		3,480.93	A
Well 1	198	24	500	437.50		805.00	B
Well 2	228	13	240	144.99	499.85	494.86	C
Well 3	365	24	220	354.86			
Total				1,597.71		4,780.79	
Wastewater Treatment Plant	365	24	(Evaporative consumptive use from polishing pond)				

[A] Total authorized volume of water rights M2 through M7 in Table 1.
[B] Total authorized volume of water rights M8 in Table 1.
[C] Total authorized volume for Wells 2 and 3 of water rights M10 through M12 in Table 1.

Table 5. Historical Use of Wells 5, 6, 7, and 8 (2020-2024)

A	B	C	D	E	F	G	H	I	G
Year	Diversions (acre-feet/year)					Current Authorized Volume (acre-feet/year)			= Column F / Column I
	Well 5	Well 6	Well 7	Well 8	Total	Well 5[a]	Well 6[b]	Well 5 and 6	
2020	199	194	188	118	700	96.30	805.00	901.30	78%
2021	205	216	209	130	760				84%
2022	308	269	135	94	805				89%
2023	295	307	134	87	823				91%
2024	311	323	114	85	833				92%

[a] 76H 30043133
[b] 76H 89376 00

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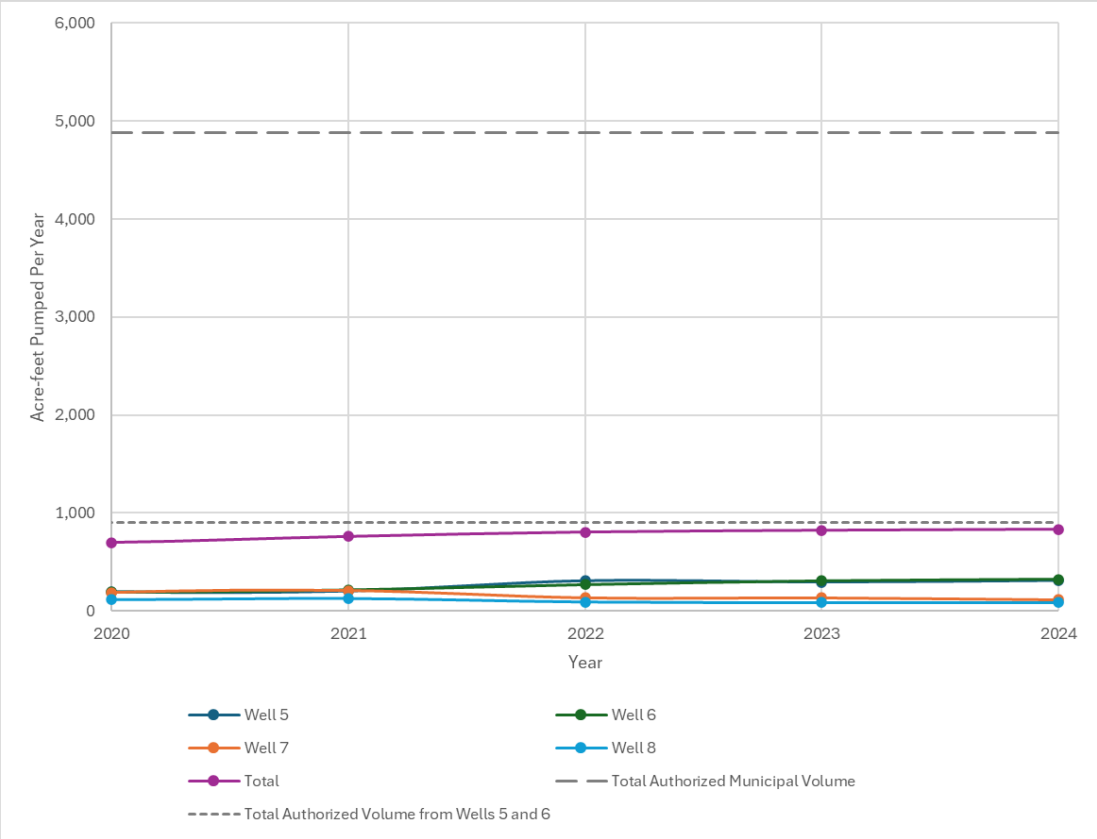

Figure 1. Historical Use of Wells 5, 6, 7, and 8 (2020-2024)

21. Will your system be designed to discharge water from the project?

Y

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.

The DEQ discharge permit number for the Stevensville Wastewater Treatment Plant is MT0022713.

Wastewater enters the treatment plant through the headworks, which is an enclosed building, and the channels are covered. The headworks has a covered equalization basin as part of the pump station. The wastewater is pumped to the bioreactor (fully enclosed) and settles in the secondary clarifiers (enclosed), then through the UV for disinfection in a conditioned building, covered channel. From there, the water is pumped to the far edge of the site and discharged to an open ditch in the SE NW NW Section 27, T9N, R20W that infiltrates and conveys to the Bitterroot River. The monitoring point for DEQ permit MT0022713 is in the NW NE NW Section 22, T9N, R20W. Attachments A and B present a schematic and site plan of the current Wastewater Treatment Plant, respectively.

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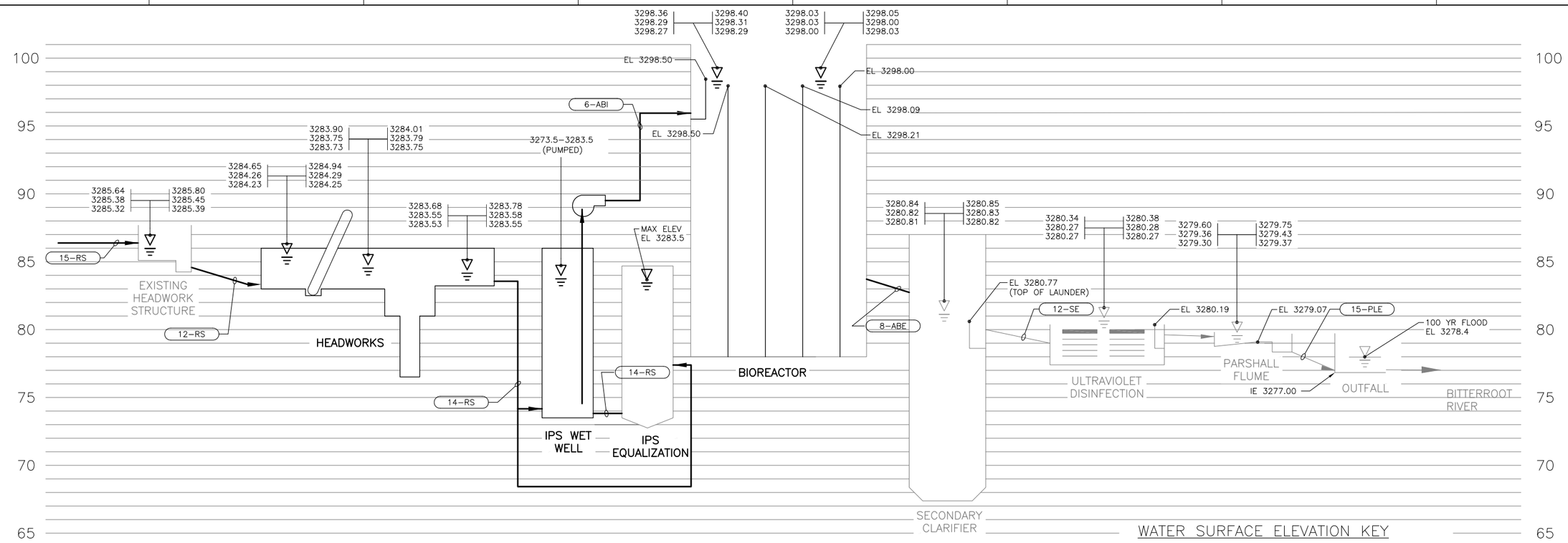
ATTACHMENT A
WASTEWATER TREATMENT PLANT SCHEMATIC

Docusign Envelope ID: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85

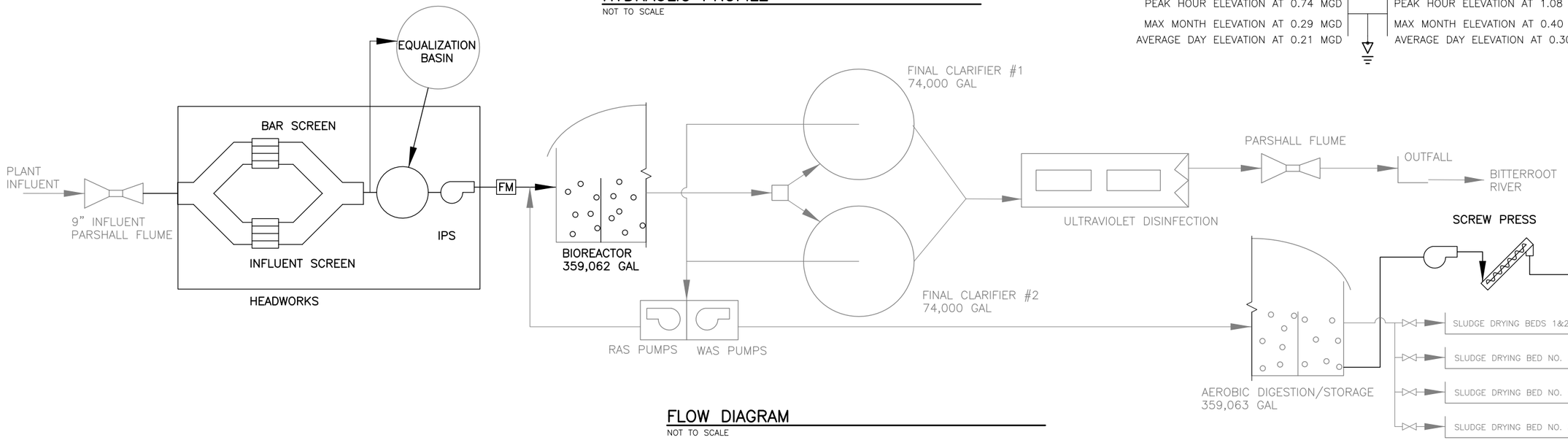


HYDRAULIC PROFILE

NOT TO SCALE

WATER SURFACE ELEVATION KEY

YEAR 2014	YEAR 2035
PEAK HOUR ELEVATION AT 0.74 MGD	PEAK HOUR ELEVATION AT 1.08 MGD
MAX MONTH ELEVATION AT 0.29 MGD	MAX MONTH ELEVATION AT 0.40 MGD
AVERAGE DAY ELEVATION AT 0.21 MGD	AVERAGE DAY ELEVATION AT 0.30 MGD



FLOW DIAGRAM

NOT TO SCALE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
	01/2017	RECORD DRAWINGS

PROJECT MANAGER	C. REVIS
DESIGNED BY	C. REVIS
DRAWN BY	H. FANCHER
CHECKED BY	D. HARMON
PROJECT NUMBER	000000000218338

RECORD DRAWING
JANUARY 2017

RECORD DRAWING:

PREPARED ACCORDING TO CONSTRUCTION RECORDS. RECORD DRAWINGS PREPARED FROM RECORD INFORMATION CONTAINED IN ADDENDA AND CHANGE ORDERS AND OTHER INFORMATION PROVIDED BY THE CONTRACTOR. THESE HAVE NOT BEEN SUPPLEMENTED WITH INFORMATION KNOWN TO THE ENGINEER THAT WAS NOT INDICATED BY THE CONTRACTOR'S RECORDS.

HISTORIC STEVENSVILLE Where Montana Began

Town of Stevensville
PHASE 2 WASTEWATER TREATMENT PLANT IMPROVEMENTS

Stevensville, Montana 2015

GENERAL
HYDRAULIC PROFILE AND FLOW DIAGRAM

0 1" 2"

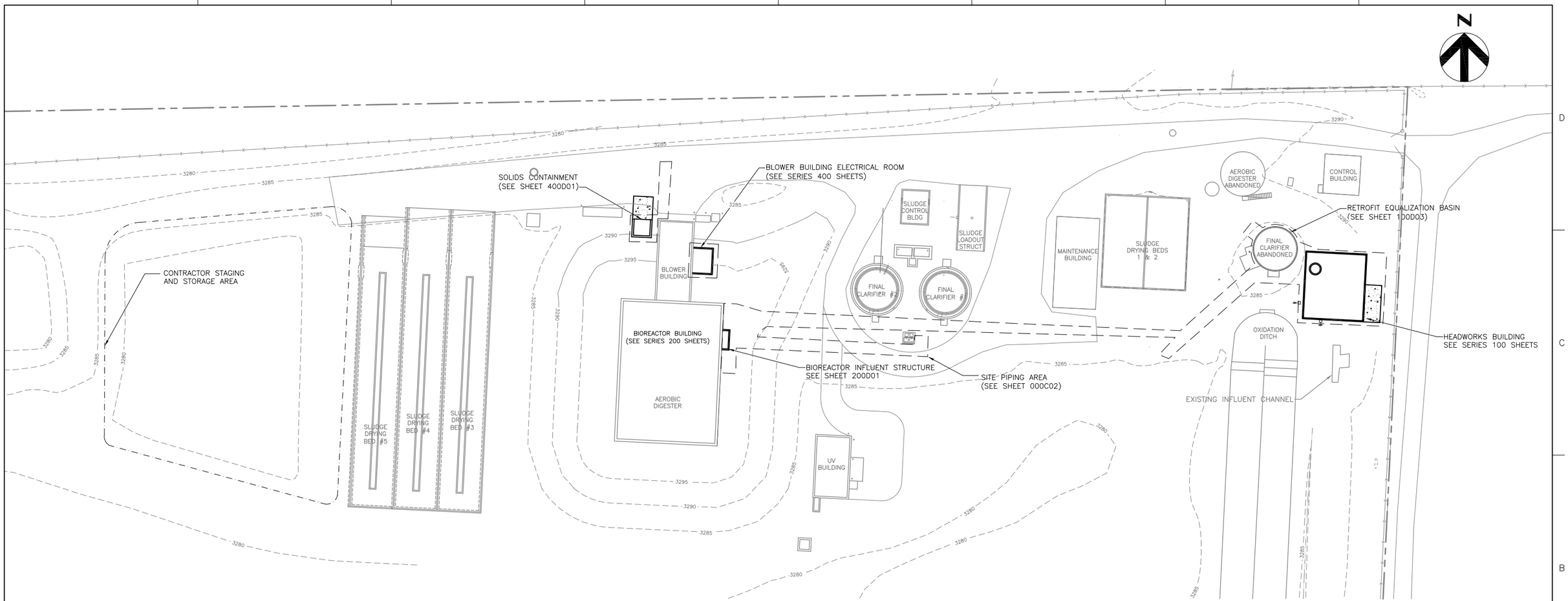
FILENAME	000G08.dwg
SCALE	SCALE

SHEET
000G08

Docusign Envelope ID: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85

ATTACHMENT B
WASTEWATER TREATMENT PLANT SITE PLAN

Docusign Envelope ID: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85



SITE PLAN
1" = 30'-0"

GENERAL NOTES:

1. CONTRACTOR TO MAINTAIN ACCESS FOR PLANT STAFF AND EQUIPMENT AT ALL TIMES. ALL PLANT ROADS OR DRIVES DAMAGED BY CONTRACTORS OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITION.

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
	01/2017	RECORD DRAWINGS

PROJECT MANAGER	C. REVIS
DESIGNED BY	C. REVIS
DRAWN BY	BRION/FANCHER
CHECKED BY	D. HARMON
PROJECT NUMBER	0000000002183338

RECORD DRAWING
JANUARY 2017

RECORD DRAWING:
PREPARED ACCORDING TO CONSTRUCTION RECORDS. RECORD DRAWINGS PREPARED FROM RECORD INFORMATION CONTAINED IN ADDENDA AND CHANGE ORDERS AND OTHER INFORMATION PROVIDED BY THE CONTRACTOR. THESE HAVE NOT BEEN SUPPLEMENTED WITH INFORMATION KNOWN TO THE ENGINEER THAT WAS NOT INDICATED BY THE CONTRACTOR'S RECORDS.

Town of Stevensville
PHASE 2 WASTEWATER TREATMENT PLANT IMPROVEMENTS
Stevensville, Montana 2015

CIVIL
SITE CONSTRUCTION AND STAGING PLAN

0 1" 2"

FILENAME	000C01.dwg
SCALE	1" = 30'-0"

SHEET
000C01

Certificate Of Completion

Envelope Id: 6B5D631A-11CD-4BAD-8BA9-C9F76B758F85
Status: Completed
Subject: Complete with Docusign: 606P-B Town of Stevensville 76H 30170801 revised.pdf
Source Envelope:
Document Pages: 19
Signatures: 2
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Initials: 0
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EnvelopeId Stamping: Enabled
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Envelope Originator:
Jim Nave
1539 11th Avenue
Helena, MT 59601
jnave@mt.gov
IP Address: 161.7.26.160

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Electronic Record and Signature Disclosure: Accepted: 10/17/2025 2:31:42 PM ID: 4fefe4a9-4440-4d3f-8433-9d3c6720fec9		
Jim Nave jnave@mt.gov Montana Department of Natural Resources and Conservation Security Level: Email, Account Authentication (None)	 Signature Adoption: Pre-selected Style Using IP Address: 161.7.26.160	Sent: 10/17/2025 2:32:54 PM Viewed: 10/21/2025 11:37:27 AM Signed: 10/21/2025 11:37:42 AM
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Notary Events	Signature	Timestamp

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Completed	Security Checked	10/21/2025 11:37:44 AM

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You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:
To contact us by email send messages to: servicedesk@sitsd.mt.gov

To advise Montana Dept of Natural Resources & Conservation of your new email address

To let us know of a change in your email address where we should send notices and disclosures electronically to you, you must send an email message to us at servicedesk@sitsd.mt.gov and in the body of such request you must state: your

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To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an email to servicedesk@sitsd.mt.gov and in the body of such request you must state your email address, full name, mailing address, and telephone number. We will bill you for any fees at that time, if any.

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i. decline to sign a document from within your signing session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;

ii. send us an email to servicedesk@sitsd.mt.gov and in the body of such request you must state your email, full name, mailing address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

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The minimum system requirements for using the DocuSign system may change over time. The current system requirements are found here: https://support.docusign.com/guides/signer-guide-signing-system-requirements.

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To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please confirm that you have read this ERSD, and (i) that you are able to print on paper or electronically save this ERSD for your future reference and access; or (ii) that you are able to email this ERSD to an email address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format as described herein, then select the check-box next to ‘I agree to use electronic records and signatures’ before clicking ‘CONTINUE’ within the DocuSign system.

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- You can print on paper this Electronic Record and Signature Disclosure, or save or send this Electronic Record and Disclosure to a location where you can print it, for future reference and access; and
- Until or unless you notify Montana Dept of Natural Resources & Conservation as described above, you consent to receive exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you by Montana Dept of Natural Resources & Conservation during the course of your relationship with Montana Dept of Natural Resources & Conservation.

Missoula Water Resources Regional Office
PO Box 5004
2705 Spurgin Road, Bldg. C
Missoula, MT 59806-5004
(406) 721-4284

October 16, 2025
Town of Stevensville
PO Box 30
Stevensville, MT 59870
Subject: Incomplete Preapplication Form for Change Application No. 76H 30170801

Dear Applicant,

The Department received your Preapplication Meeting Form and preapplication fee on October 15, 2025. The Department deemed the submitted Preapplication Meeting Form to be incomplete because it lacks the following information:

- ❑ Question 10: Legal land descriptions for wells 2 & 3 are required.
- ❑ Question 13: Table 3 lists the operational period of wells 2 & 3 as continuing into the present. GWIC records suggest these wells have been permanently abandoned. Please either correct Table 3 or make a note of why the GWIC records are erroneous in your amended responses.
- ❑ Question 72: Response needs to be amended to match the amended response to Q. 10.

The 180-day deadline from the original preapplication meeting is October 19, 2025. You have 3 remaining days to successfully complete the Preapplication Meeting Form. If you do not submit the successfully completed Preapplication Meeting Form to the Missoula Regional Office by October 19, 2025, you will need to request a new preapplication meeting.

Please let us know if you would like us to transfer your $500 payment to another preapplication meeting, or whether you would prefer a refund.

Please let me know if you have any questions.

Best,

Benjamin Thomas
Water Conservation Specialist II
Missoula Regional Office
(406) 542-5883 | benjamin.thomas@mt.gov

cc: jared.bean@aspectconsulting.com

PREAPPLICATION MEETING FORM: PART B
CHANGE

§ 85-2-302(3)(b), MCA
Form No. 606P-B *(Revised 02/2025)*

For Department Use Only

Application # _____ Basin _____
Form Received _____
Fee Rec'd $ _____ Check # _____
Deposit Receipt # _____
Payor _____
Form Returned _____
Refund $ _____ Date _____

RECEIVED
OCT 15 2025
MONTANA D.N.R.C
MISSOULA REGIONAL OFFICE

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 606P-A). The Applicant may not alter Form 606P-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 606P-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 606P-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 606P-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 606P-A?

   If yes,

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

3. ☑ **Y** ☐ **N** Are you submitting amended responses to any questions from Form 606P-A?

If yes,

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

Question No.	Question No.	Question No.	Question No.
3			
8			
9			
10			
13.a.ii			

FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"I attest that this preapplication meeting form (Form 606P-A and Form 606P-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))."

Bob Maclay Mayor — 10-15-25

Applicant Signature — Date

Bob Mclay Mayor — 10-15-25

Applicant Signature — Date

"We confirm that the preapplication form (Form 606P-A and Form 606P-B), amended responses, and follow-up information are adequate for the Department to proceed with technical analyses in ARM 36.12.1303. Or, if the Applicant has elected to complete technical analyses, we confirm they have submitted each required element of technical analysis based on the proposed project and the Department is able to proceed with the scientific credibility review (ARM 36.12.1303(8))."

Department Signature — Date

Department Signature — Date

TOWN OF STEVENSVILLE
76H 30170801 "WELL 1" CHANGE APPLICATION
FORM 606P-B AMENDED RESPONSES
10/14/2025

3) "Which water right(s) are proposed for change?"

Water Right No.	Current Authorized Flow Rate			Flow Rate Needed for Project			Means of Diversion
	Flow	GPM	CFS	Flow	GPM	CFS	
76H 89376-00	500	x		500	x		Wells 1, 2, 3, 6

8) "Submit a historical use map…"

See attached Figure 1.

9) "Submit a proposed use map…"

See attached Figure 1.

Attached Figure 2 provides an overview of the full municipal system, for reference.

10) "Does the change involve a change in point of diversion?"
Y

a. "If yes, describe the location for all new and unchanged points of diversion to the nearest 10 acres. Label POD ID with the POD ID assigned for the proposed use map (question 9)."

POD ID	1/4	1/4	1/4	Sec	Twp	Rge	County	Lot	Block	Tract	Sub-division	Gov. Lot	New or Unchanged
Well 1	SW	NE	NE	27	9N	20W	Ravalli						Unchanged
Well 2													Unchanged
Well 3													Unchanged
Well 5	NW	NE	NE	35	9N	20W	Ravalli						New
Well 6	NW	NE	NE	35	9N	20W	Ravalli						Unchanged
Well 7	NW	NE	NE	35	9N	20W	Ravalli						New

13.a.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."

Acres	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County
		S2 S2			23	9N	20W	Ravalli
					26	9N	20W	Ravalli
		SE			27	9N	20W	Ravalli
		S2 NE			27	9N	20W	Ravalli
		NE NE			27	9N	20W	Ravalli
		E2 NW NE			27	9N	20W	Ravalli
		SW NW NE			27	9N	20W	Ravalli
		S2 NE NW			27	9N	20W	Ravalli
		SW NW			27	9N	20W	Ravalli
		SE NW NW			27	9N	20W	Ravalli
		NE SW NW			27	9N	20W	Ravalli
		SE SW NW			27	9N	20W	Ravalli
		E2 SW			27	9N	20W	Ravalli
		NE			34	9N	20W	Ravalli
		E2 NW			34	9N	20W	Ravalli
		NE SW			34	9N	20W	Ravalli
		N2 SE			34	9N	20W	Ravalli
		N2			35	9N	20W	Ravalli
		N2 S2			35	9N	20W	Ravalli

Notes:
- Permit 76H 89376-00 has three authorized points of diversion (Wells 1, 2, and 3); this analysis includes only the Well 1 portion of 76H-89376-00.

Historical and Proposed Points of Diversion and Places of Use

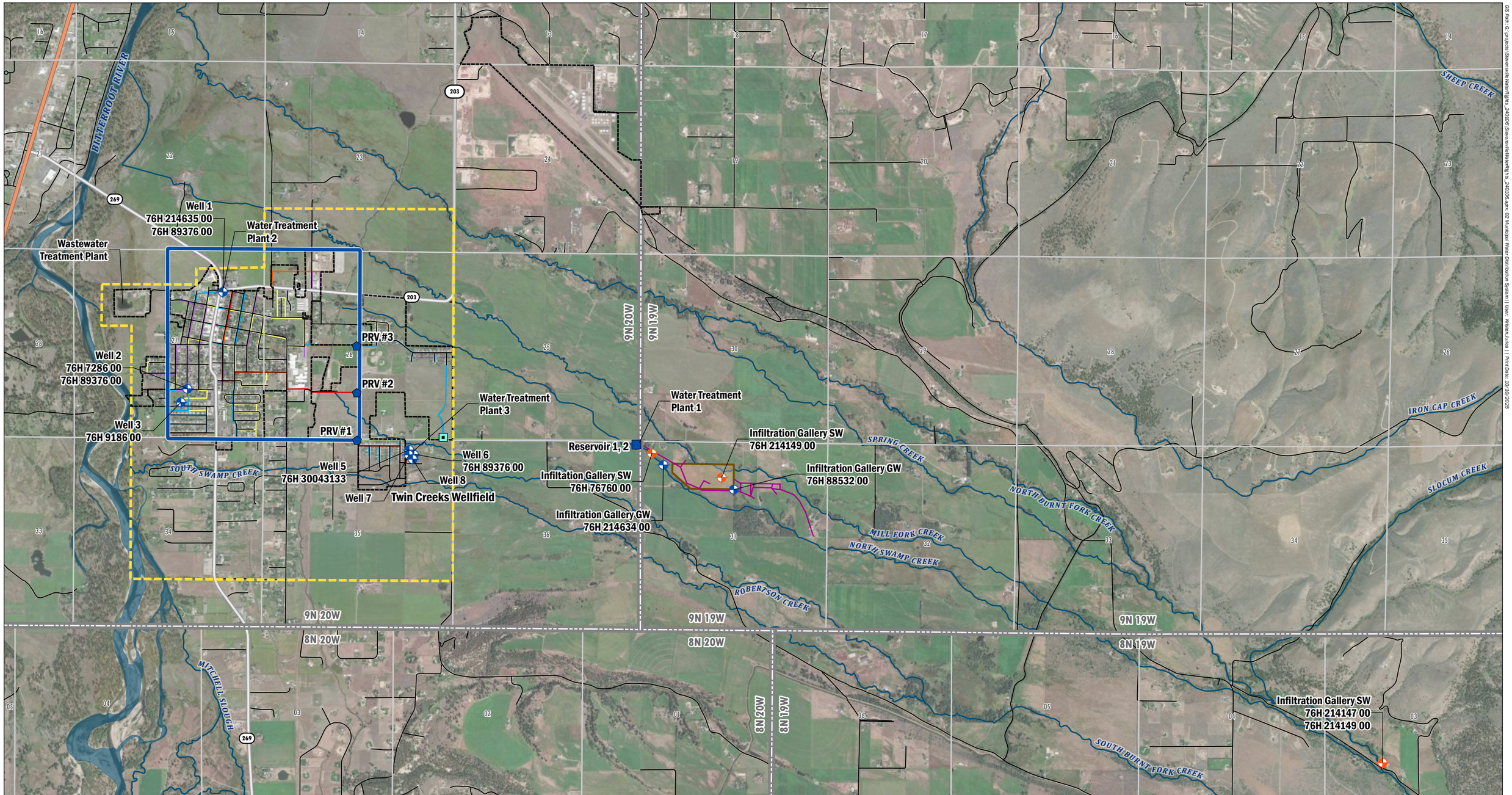
Change No. 76H 30170801
Unperfected Permit 76H 89376 00
Town of Stevensville, Montana

DRAFT

Aspect, A Geosyntec Company	OCT-2025	BY: JB / KMJ	FIGURE NO. 1
	PROJECT NO. 240106	REVISED BY: --- / ---	

Data source credits: NewFields, Ravalli County || Basemap Service Layer Credits: Maxar, Microsoft, Maxar

GIS Path: G:\projects\Stevensville\WaterRights_240106\Stevensville\WaterRights_240106.aprx::01 Historical and Proposed POD POU\ | User: Kristen Jurrica | | Print Date: 10/10/2025



Groundwater Point of Diversion
Surface Water Point of Diversion
Proposed (P) Place of Use
Historical (H) Place of Use
Town-Owned Parcel
(Geocode 13-1765-31-1-01-13-0000)

Key Water Structures
PRV
Pump Station
Water Tank

Water Mains
Diameter (inches)
2-4"
6"
8"
10"
12"
16"
Infiltration Gallery Conveyance Line
Town Limits (as of 2019)
Township and Range Boundary
Section Boundary

Note:
- Infiltration Gallery Conveyance Lines digitized from Town of Stevensville Infiltration System Map, estimated production 1938.

N
0 1,300 2,600
Feet

Municipal Water Distribution System

Form 606P-B, Change No. 76H 30170801
Stevensville, Montana

DRAFT

Aspect A Geosyntec Company	OCT-2025	BY: JB / KMJ	FIGURE NO. 2
	PROJECT NO. AS240106	REVISED BY: ---/---	

Data source credits: NewFields, Ravalli County || Basemap Service Layer Credits: Earthstar Geographics

GIS Path: G:\projects\Stevensville\WaterRights_240106.aprx; 02 Municipal Water Distribution System || User: Kristen.Jurica || Print Date: 10/10/2025

TOWN OF STEVENSVILLE
76H 30170801 "WELL 1" CHANGE APPLICATION
FORM 606P-B FOLLOW-UP RESPONSES
10/14/2025

13.a.iii) "Do other water rights supplement or overlap the historical and/or proposed place of use?"
Y

Table 1 summarizes the Town of Stevensville's municipal purpose water rights. All the rights contribute to a manifold distribution system, and therefore all the rights are supplemental.

Table 1. Stevensville's Municipal Purpose Water Rights

A	B	C	D	E	F	G	H	I	G	H	I	J	K	L	M
1	Water Right		Diversion Name	Source	Source Name	Type	Purpose	Period of Diversion	Period of Use	Enforceable Priority Date	Max. Flow (cfs)	(gpm)	Max. Volume (af/y)	Additive Flow (gpm)	Additive Volume (af/y)
2	76H 214634 00		IG - GW	GROUNDWATER	NORTH SWAMP CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	0.77	345	555.93	345.30	555.93
3	76H 88532 00	A	IG - GW	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	2/25/1994	0.77	345	556.97	0.00	0.00
4	76H 214147 00		IG - SW	SURFACE	BURNT FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	2.50	1122	1120.00	1,122.00	1,120.00
5	76H 214149 00		IG - SW	SURFACE	BURNT FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.25	561	900.00	561.00	900.00
6	76H 214649 00		IG - SW	SURFACE	MILL FORK CREEK	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.25	561	905.00	561.00	905.00
7	76H 76760 00	B	IG - SW	SURFACE	NORTH SWAMP CREEK	PP	MUNICIPAL	10/15-4/15	10/15-4/15	1/28/1990	0.75	338	272.20	0.00	0.00
8	76H 30043133	C	Well 5	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	9/3/2008	0.67	300	96.30	300.00	96.30
9	76H 214635 00		Well 1	GROUNDWATER	GROUNDWATER	SC	MUNICIPAL	1/1-12/31	1/1-12/31	6/30/1973	1.11	498	805.00	498.17	805.00
10	76H 7286 00		Well 2	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	1/23/1976	0.53	240	40.00	240.00	40.00
11	76H 9186 00		Well 3	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	8/13/1976	0.49	220	340.00	220.00	340.00
12	76H 89376 00	D	Wells 1, 2, 3, 6	GROUNDWATER	GROUNDWATER	PP	MUNICIPAL	1/1-12/31	1/1-12/31	3/28/1994	1.11	500	919.86	0.00	114.86
13	Total													***3,847.5***	***4,877.1***

IG = Infiltration Gallery, GW = groundwater, SW = surface water
PP = Provisional Permit, SC = Statement of Claim
af/y = acre-feet per year, cfs = cubic feet per second, gpm = gallons per minute
[A] Associated with 76H 214634 00.
[B] Associated with IG rights 76H 214147 00, 76H 214149 00, & 76H 214649 00.
[C] Subject to mitigation plan.
[D] Associated with 76H 214635 00 plus extra volume for Wells 2 and 3.

13.a.iii.1.a) "If yes, [how] were the water rights operated to serve the historical purposes and how will they be operated to serve the proposed purposes?"

The Town of Stevensville (Town) first put water to municipal use in 1909.

In summary, the Town has experienced five phases of municipal supply source modifications:

- Phase 1 (1909-1930s)
  - Sole source of water was direct surface water to Reservoir 1.
- Phase 2 (1930s-1970)
  - Primary source of water was the Infiltration Gallery; supplemental supply was from surface water and also from Wells 1 and 2 as they came online.
- Phase 3 (1970-1979)

    - Primary source of water changed from Infiltration Gallery to Well 1 for water quality reasons; supplemental supply was from Wells 2 and 3 and also from Infiltration Gallery and surface water.
- Phase 4 (1979-2014)
    - After construction of Water Treatment Plant 1 in 1979, primary source reverted back to the Infiltration Gallery to use the lower operational cost gravity-fed system. Supplemental supply was from Wells 1, 2, and 3, and also from surface water. By the mid 1990's, the Town had to pump Wells 1, 2, and 3 almost full time to meet demand.
- Phase 5 (2014-present)
    - Primary source of water transitioned to the Twin Creeks Wellfield (Wells 5, 6, 7, 8; treated at Water Treatment Plant 3). In the Twin Creeks Wellfield, only Wells 5 and 6 currently have water rights. Supplemental sources of municipal supply are Wells 1, 2, and 3 (treated at their wellheads); the Infiltration Gallery (treated at Water Treatment Plant 1); and surface water (originally diverted directly to Reservoir 1; later used to flood irrigate and increase supply to the Infiltration Gallery).

In recent decades, the Town has worked to reduce water demand by implementing irrigation restrictions, fixing leaks, adding meters (including to all service connections), and increasing service rates.

Table 2 presents a timeline of construction of various municipal water facilities and summarizes historic use of the supplemental municipal water rights. Table 3 lists all the diversion, treatment, and reservoir facilities, including operational date ranges, metering status, and notes about consumptive use.

The proposed change will add pumping rate and volume authorizations to Wells 5 and 7. Following the change authorization, Wells 5, 6, and 7 will be the primary sources, all with water right authority. This change will allow water right 76H 89376 00 to serve an expanded place of use (see Amended Response 13.a.ii and Figure 1 of Amended Responses) from the manifold distribution system. Supplemental sources will continue to include Wells 1, 2, and 3; the Infiltration Gallery; and surface water. After this change authorization, the Town intends to 1) change the Wells 2 and 3 rights points of diversion and places of use, and 2) change the Infiltration Gallery (surface and groundwater) rights to mitigation for new permit(s).

Table 2. Timeline of Municipal Water Facility Construction Events

Date	Facility	Municipal Use Summary
1909	Reservoir 1 constructed	Sole source is surface water diversions from North Swamp Creek and Mill Creek.
1930	Infiltration gallery constructed; conveys to Reservoir 1	Primary source is Infiltration Gallery; supplemental source is direct surface water.
Late 1950s - early 1960s	Reservoir 2 constructed; receives water from Infiltration Gallery and surface water; Reservoir 1 remains intact but unused	
Late 1960s	Chlorination of Reservoir 2 started	
1957	Well 1 constructed; pumps directly to distribution system; eventually chlorinated at the wellhead (Water Treatment Plant 2)	1957-1970: Primary source is the Infiltration Gallery. Supplemental sources include direct surface water (especially when low turbidity), Well 1, Well 2. (Infiltration Gallery is the preferred source because gravity fed and lowest cost to run. Direct surface water is a preferred source, especially when low turbidity, because gravity fed and low cost to run. Wells are the most expensive to run due to pumping power costs, but water quality is good and consistent.) 1970-1979: Primary source is Well 1 for water quality reasons, until Water Treatment Plant 1 finished construction in 1979. Other sources supplemental. 1979-2014: Primary source is Infiltration Gallery, for low operational cost reasons. Other sources supplemental.
1968	Well 2 constructed; pumps directly to distribution system	
1974	Well 3 constructed; pumps directly to distrubtion system	
1979	Water Treatment Plant 1 constructed (for Infiltration Gallery water) adjacent to Reservoir 2; consisted of rapid sand filter and chlorination (chlorination started in late 1960s); treats Infiltration Gallery water (surface and groundwater sources) and discharges to Reservoir 2	
	Reservoir 2 roof constructed	
	10-inch water main constructed from Reservoir 2 to Town	
2008	Well 5 constructed	2014-present: Twin Creeks Wellfield becomes primary municipal source; pumping rates monitored by SCADA system. Other sources supplemental and backup.
2012	Well 6 constructed	
	Well 7 constructed	
2013	Well 8 constructed	
2013	Water Treatment Plant 3 constructed to treat Twin Creeks wellfield water and transmit to Reservoir 2	

Table 3. Summary of Facilities, Operation Periods, and Municipal Use

Facility	Operational Period	Meter Status	Municipal Use Notes
Surface water diversions	1909-present	Meter data unavailable	Sole source from 1909 to 1930s
Infiltration Gallery – shallow groundwater	1930s-present		Primary source starting in 1930s
Well 1	1957-present	Meter data unavailable	1957-1970: supplemental source; 1970-1979: primary source; 1979-present: supplemental source
Well 2	1968-present	Not metered	Supplemental source
Well 3	1974-present	Not metered	Supplemental source
Well 5	2008-present	SCADA, totalizing flowmeter	Primary sources starting in 2014
Well 6	2012-present	SCADA, totalizing flowmeter	
Well 7	2012-present	SCADA, totalizing flowmeter	
Well 8	2013-present	SCADA, totalizing flowmeter	
Water Treatment Plant 1	1979-present	Meter data unavailable	Receives water from Infiltration Gallery and surface water; covered (no evaporation)
Water Treatment Plant 2	Unknown-present	Not metered	Treats Well 1 water; covered (no evaporation)
Water Treatment Plant 3	2014-present	SCADA, totalizing flowmeters	Treats Wells 5, 6, 7, 8 water; covered (no evaporation)
Reservoir 1	1909-early 1960s	Not metered	Received water from Infiltration Gallery and surface water; uncovered (evaporation from surface area of 1,500 feet^2)
Reservoir 2	Late 1950s/early 1960s-present	Meter data unavailable for Infiltration Gallery and direct surface	Receives water from Infiltration Gallery, surface water, and Wells 5, 6, 7, 8; uncovered until 1979 (evaporation from surface area of 9,500 feet^2)
Wastewater Treatment Plant	Unknown-present	Meter data available	Unknown-1979: Facility operated as a controlled discharge lagoon. 1979: Facility began operation as a mechanical treatment plant. Upgrades included biological treatment in oxidation ditch, final sedimentation, aerobic solids digestion, and solids storage in sludge drying beds. 1998: Major improvements constructed, including new secondary clarification units, new aerobic digestion facility and blower building copmlex, and additional sludge drying beds. [1]

[1] https://www.townofstevensville.com/sites/default/files/fileattachments/public_works/page/2061/2008_ww_per.pdf

13.a.iii.1.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")."

Table 2 presents a timeline of construction of various municipal water facilities and summarizes historic use of the supplemental municipal water rights. Table 3 lists all the diversion, treatment, and reservoir facilities, including operational date ranges, metering status, and notes about consumptive use. Table 4 summarizes 1994 system diversions and water use. Table 5 summarizes 2020-2024 system diversions.

The Infiltration Gallery rights contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. Prior to 2014, the infiltration gallery rights were the primary source of water for the Town. Since 2014 and construction of the Twin Creeks Wellfield (Wells 5, 6, 7, and 8), the Infiltration Gallery system is backup supply. After this change authorization, the Infiltration Gallery rights will be changed to mitigation for new permits. Table 4 summarizes estimated 1994 historical use based on data presented in the 2014 change application 76H 30070414.

The Well 1 and 6 right (76H 89376 00) contributes to historical use and is the subject of this change application.

The Well 2 and 3 rights contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. Since being drilled, Wells 2 and 3 have been primarily backup supply sources. After this change authorization, the Town will change the points of diversion and places of use for these rights. Table 4 summarizes estimated 1994 historical use from data presented in the 2014 change application 76H 30070414.

The Well 5 water right contributed to historical use. Table 1 presents the authorized period of contribution, maximum flow rates, and annual volumes. After the change authorization, Well 5 will continue to use 76H 30043133 as authorized. Table 5 and Figure 1 summarize historical use from 2020-2024.

Table 4. 1994 Use Estimates by PCI in 2014 Change Application 76H 30070414

Source	Days/Year	Hours/Day	Flowrate (gpm)	Diverted (acre-feet)		Authorized (acre-feet)	
Water Treatment Plant 1 (Infiltration Gallery surface and groundwater sources)	365	24	345.3	660.36		3,480.93	A
Well 1	198	24	500	437.50		805.00	B
Well 2	228	13	240	144.99	499.85	494.86	C
Well 3	365	24	220	354.86			
Total				1,597.71		4,780.79	
Wastewater Treatment Plant	365	24	(Evaporative consumptive use from polishing pond)				

[A] Total authorized volume of water rights M2 through M7 in Table 1.
[B] Total authorized volume of water rights M8 in Table 1.
[C] Total authorized volume for Wells 2 and 3 of water rights M10 through M12 in Table 1.

Table 5. Historical Use of Wells 5, 6, 7, and 8 (2020-2024)

A	B	C	D	E	F	G	H	I	G
Year	Diversions (acre-feet/year)					Current Authorized Volume (acre-feet/year)			= Column F / Column I
	Well 5	Well 6	Well 7	Well 8	Total	Well 5[a]	Well 6[b]	Well 5 and 6	
2020	199	194	188	118	700	96.30	805.00	901.30	78%
2021	205	216	209	130	760				84%
2022	308	269	135	94	805				89%
2023	295	307	134	87	823				91%
2024	311	323	114	85	833				92%

[a] 76H 30043133
[b] 76H 89376 00

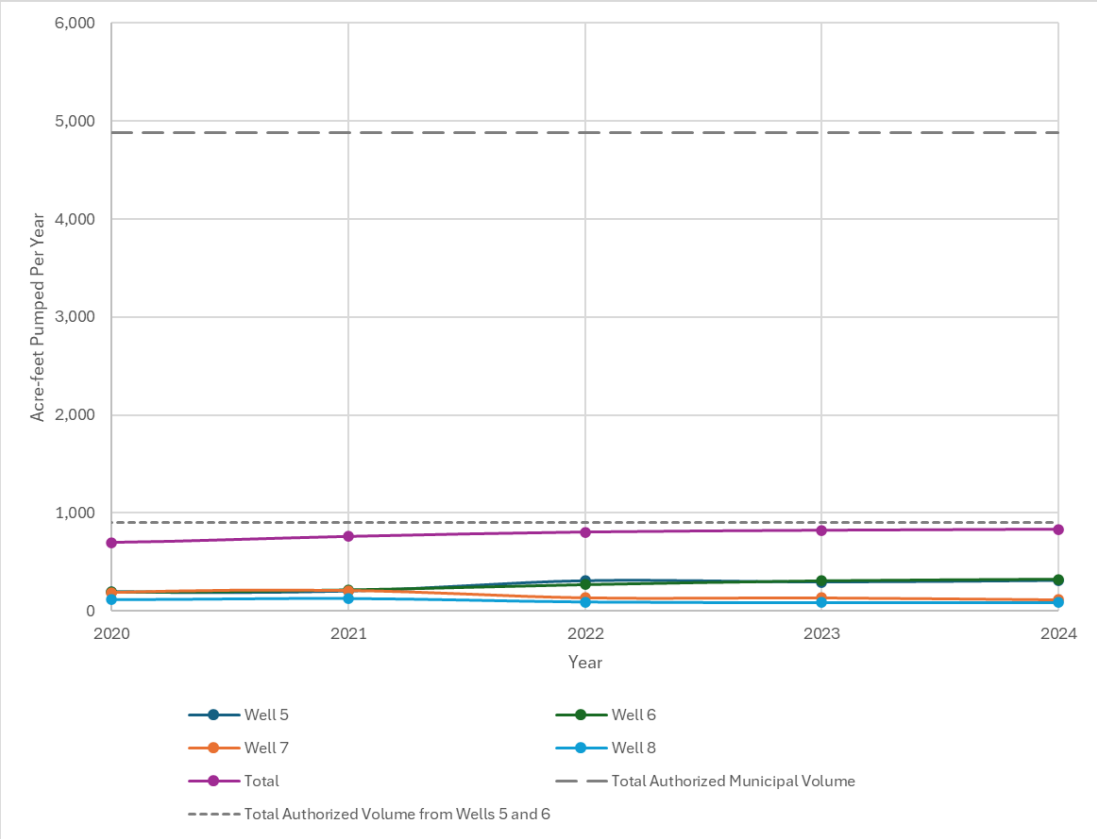


Figure 1. Historical Use of Wells 5, 6, 7, and 8 (2020-2024)

21. Will your system be designed to discharge water from the project?

Y

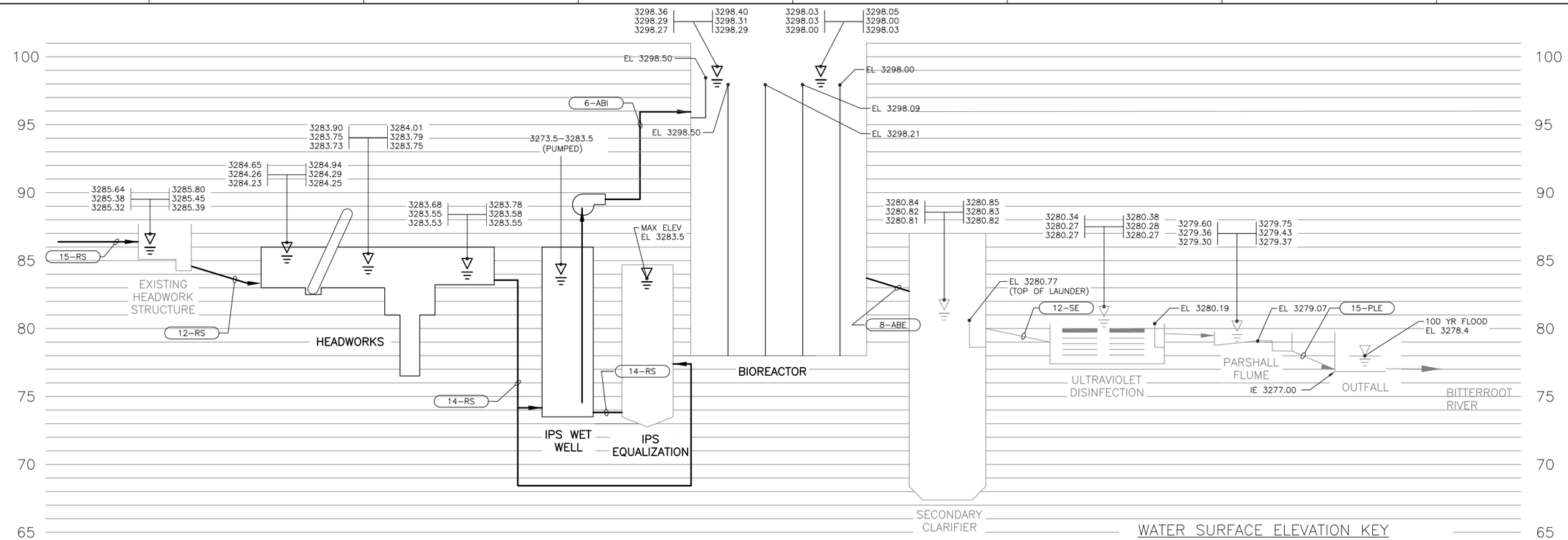
a. If yes, explain the wastewater disposal method. A discharge permit may be required to comply with §§ 75-5-410 and 85-2-364, MCA.

The DEQ discharge permit number for the Stevensville Wastewater Treatment Plant is MT0022713.

Wastewater enters the treatment plant through the headworks, which is an enclosed building, and the channels are covered. The headworks has a covered equalization basin as part of the pump station. The wastewater is pumped to the bioreactor (fully enclosed) and settles in the secondary clarifiers (enclosed), then through the UV for disinfection in a conditioned building, covered channel. From there, the water is pumped to the far edge of the site and discharged to a side channel of the Bitterroot River.

Attachments A and B present a schematic and site plan of the current Wastewater Treatment Plant, respectively.

ATTACHMENT A
WASTEWATER TREATMENT PLANT SCHEMATIC

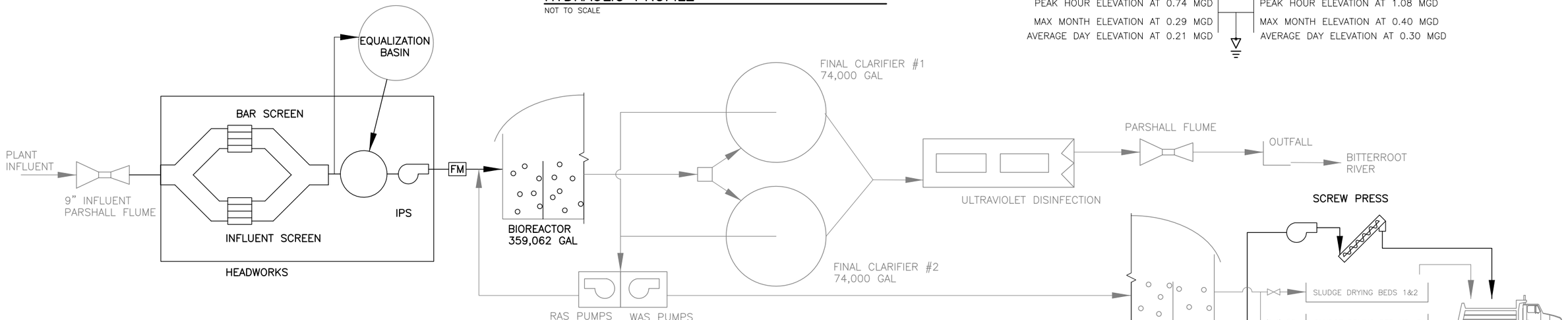


WATER SURFACE ELEVATION KEY

YEAR 2014	YEAR 2035
PEAK HOUR ELEVATION AT 0.74 MGD	PEAK HOUR ELEVATION AT 1.08 MGD
MAX MONTH ELEVATION AT 0.29 MGD	MAX MONTH ELEVATION AT 0.40 MGD
AVERAGE DAY ELEVATION AT 0.21 MGD	AVERAGE DAY ELEVATION AT 0.30 MGD

HYDRAULIC PROFILE

NOT TO SCALE



FLOW DIAGRAM

NOT TO SCALE

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
	01/2017	RECORD DRAWINGS

PROJECT MANAGER	C. REVIS
DESIGNED BY	C. REVIS
DRAWN BY	H. FANCHER
CHECKED BY	D. HARMON
PROJECT NUMBER	000000000218338

RECORD DRAWING
JANUARY 2017

RECORD DRAWING:

PREPARED ACCORDING TO CONSTRUCTION RECORDS. RECORD DRAWINGS PREPARED FROM RECORD INFORMATION CONTAINED IN ADDENDA AND CHANGE ORDERS AND OTHER INFORMATION PROVIDED BY THE CONTRACTOR. THESE HAVE NOT BEEN SUPPLEMENTED WITH INFORMATION KNOWN TO THE ENGINEER THAT WAS NOT INDICATED BY THE CONTRACTOR'S RECORDS.

HISTORIC STEVENSVILLE Where Montana Began

Town of Stevensville
PHASE 2 WASTEWATER TREATMENT PLANT IMPROVEMENTS

Stevensville, Montana 2015

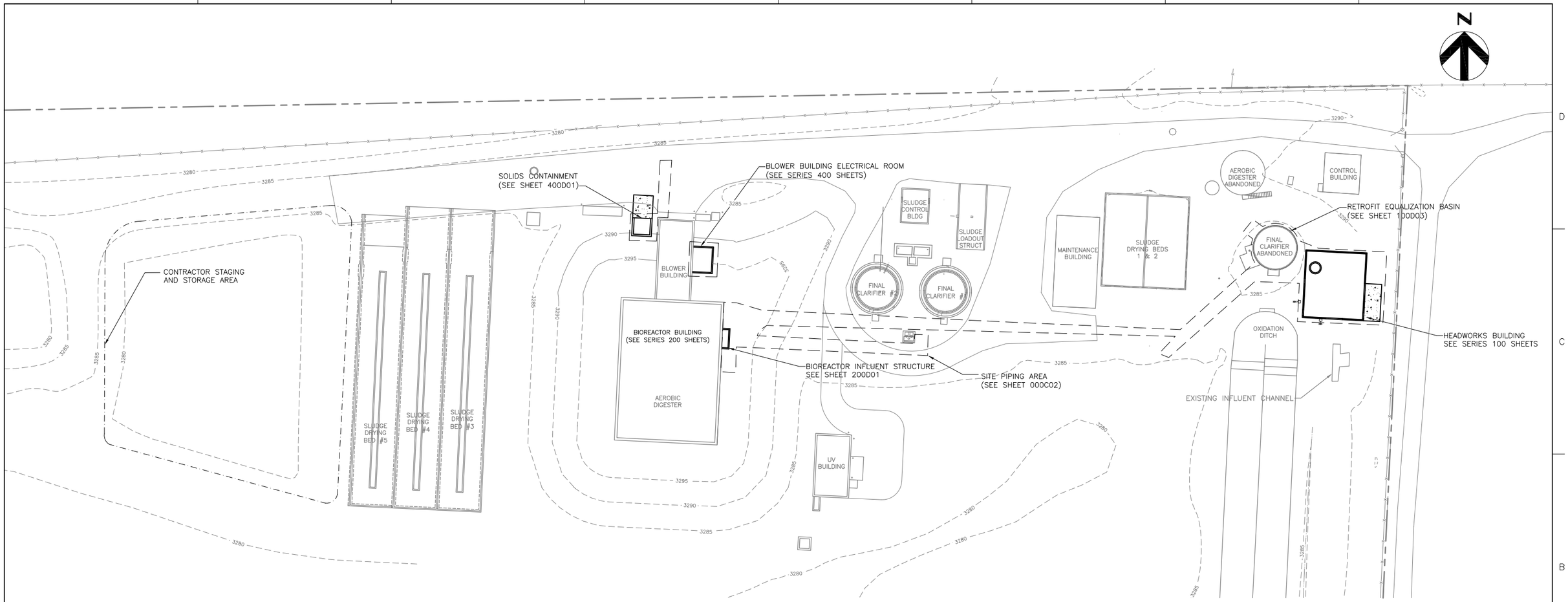
GENERAL HYDRAULIC PROFILE AND FLOW DIAGRAM

0 1" 2"

FILENAME	000G08.dwg
SCALE	SCALE

SHEET 000G08

ATTACHMENT B
WASTEWATER TREATMENT PLANT SITE PLAN



SITE PLAN
1" = 30'-0"

GENERAL NOTES:

1. CONTRACTOR TO MAINTAIN ACCESS FOR PLANT STAFF AND EQUIPMENT AT ALL TIMES. ALL PLANT ROADS OR DRIVES DAMAGED BY CONTRACTORS OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITION.

HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION
	01/2017	RECORD DRAWINGS

PROJECT MANAGER	C. REVIS
DESIGNED BY	C. REVIS
DRAWN BY	BRION/FANCHER
CHECKED BY	D. HARMON
PROJECT NUMBER	0000000002183 38

RECORD DRAWING
JANUARY 2017

RECORD DRAWING:
PREPARED ACCORDING TO CONSTRUCTION RECORDS. RECORD DRAWINGS PREPARED FROM RECORD INFORMATION CONTAINED IN ADDENDA AND CHANGE ORDERS AND OTHER INFORMATION PROVIDED BY THE CONTRACTOR. THESE HAVE NOT BEEN SUPPLEMENTED WITH INFORMATION KNOWN TO THE ENGINEER THAT WAS NOT INDICATED BY THE CONTRACTOR'S RECORDS.

Town of Stevensville
PHASE 2 WASTEWATER TREATMENT PLANT IMPROVEMENTS
Stevensville, Montana **2015**

CIVIL
SITE CONSTRUCTION AND STAGING PLAN

0 1" 2"

FILENAME	000C01.dwg
SCALE	1" = 30'-0"

SHEET
000C01

PREAPPLICATION MEETING FORM: PART A

CHANGE

§ 85-2-302(3)(b)

Form No. 606P-A *(Revised 02/2025)*

For Department Use Only

Application # 30170801 Basin 76H

Meeting Date 4/22/2025 Time 1:00 PM

Variance Request Deadline _____

Completed Form Deadline 10/19/2025

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)).

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 Town of Stevensville

Mailing Address _____ City _____ State _____ Zip _____

Phone Numbers: Home _____ Work _____ Cell _____

Email Address mayor@townofstevensville.gov

Applicant Name _____

Mailing Address _____ City _____ State _____ Zip _____

Phone Numbers: Home _____ Work _____ Cell _____

Email Address townclerk@townofstevensville.gov

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

Contact/Representative is: ☐ Applicant ☑ Consultant ☐ Attorney ☐ Other (describe) _____

Contact/Representative Name Jared Bean, Aspect Consulting

Mailing Address PO Box 134 City Helena State MT Zip 59624

Phone Numbers: Home _____ Work 406.215.9917 Cell _____

Email Address jared.bean@aspectconsulting.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
Jim Nave	DNRC	Regional Manager
Alex Dalgleish	DNRC	Water Conservation Specialist
Benjamin Thomas	DNRC	Water Conservation Specialist
Jack Landers	DNRC	Hydrologist
Kristal Kiel	DNRC	Hydrologist
David Parmelee	DNRC	Hydrologist
Jenelle Berthoud	Town of Stevensville	Town Clerk
Jared Bean	Aspect Consulting	Consultant
Ross Miller	Miller Law PLLC	Attorney

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Table of Contents

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Application Details

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

S = Submitted. *Use when required item is included with form.*
A = See attachment. *Use when additional space is needed to answer a question.*
F = Follow-up. *Use when follow-up is necessary.*

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
1. Do you elect to have DNRC conduct technical analyses?	☑ Y ☐ N	☐ F
2. How many change applications will be needed for this project? Please refer to ARM 36.12.1305 for more information. 1		☐ 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*	
76H 89376-00	500	☑	☐	500	☑	☐	Well 1
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	
		☐	☐		☐	☐	

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

5. Is the source surface water or groundwater? Groundwater		
6. What is the source name? Groundwater		
7. Identify the water right elements proposed for change, with a checkmark, for each water right proposed for change.	☐ A	☐ F

Water Right #	76H 89376-00					
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
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
a. If yes, describe the location for all *new* and *unchanged* 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	¼	¼	¼	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot	New or Unchanged
Well 1	SW	NE	NE	27	9N	20W	Ravalli						Unchanged
Well 5	NW	NE	NE	35	9N	20W	Ravalli						New
Well 6	NW	NE	NE	35	9N	20W	Ravalli						New
Well 7	NW	NE	NE	35	9N	20W	Ravalli						New
Well 8	NW	NE	NE	35	9N	20W	Ravalli						New

11. Describe the location of all historical PODs you propose to *retire*. 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: N/A	☐ A	☐ F

POD ID	¼	¼	¼	Sec.	Twp.	Rge	County	Lot	Block	Tract	Subdivision	Gov. Lot

12. What is the means of diversion for all *new* PODs? Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others. Wells		☐ F
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

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**
	Hist.	*Prop.*	*Both*	*MM/DD-MM/DD*	*Flow*	*GPM*	*CFS*	*AF*
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	
	☐	☐	☐			☐	☐	

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
15. Are conveyance ditches used for historical or proposed uses? If yes, answer ditch-specific questions 109 to 115.	☐ Y ☑ N	☐ F
16. Do you propose to add or modify one or more places of storage? This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)). If yes, answer mandatory questions 116 to 123. Additionally, you may choose to answer non-mandatory questions 175 to 179. A Change Storage Addendum (Form 606-SA) will be required at application submittal.	☐ Y ☑ N	☐ F
17. Is the proposed use temporary? If yes, answer questions 94 to 100 for temporary changes.	☐ Y ☑ N	☐ F
18. Are you filing on behalf of another entity? If yes, describe. _____ _____	☐ Y ☑ N	☐ F

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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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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. Municipal wastewater treatment plant.	☐ 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
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
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

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

Provisional Permit Number	Project Completion Notice Date	Previous Change Authorization Number	Previous Change Project Completion Notice Date	Previous Historical Use Analysis Quality
76H 89376-00	None	None	None	None

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

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
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

Water Right No. Proposed for Change	**Historical Use Analysis Options**
76H 89376-00	☐ 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: 76H 89376-00

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

	☐ 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

*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

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
38. Are you proposing to change all water rights associated with the historical place of use?	☐ Y ☐ N	☐ F
a. If no, identify the water rights associated with the historical place of use that are not included in this application. Provide the priority date for each water right and explain why all overlapping water rights are not included in the application. Include water received via contract from a company, district, or water users' association.	☐ A	☐ F

Water Right No.	Priority Date	Reason Not Included in Change

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

3. 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

POD ID	Means	Location (¼ ¼ ¼ Section)	Proposed for Change?
			☐ Y ☐ N
			☐ 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
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.		
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*	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	
					☐	☐	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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*	
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	
		☐	☐	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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*	
	76H 89376-00		☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	
			☐	☐	

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)

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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
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.		
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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.		

50. Irrigation		
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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

51. Lawn and garden		
a. Will you use a Department standard for historical consumptive use volume for lawn and garden? Department standards include 2.5 acre-feet per acre, or a calculated volume based on Irrigation Water Requirements for turf grass.	☐ 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		
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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

53. Domestic and multiple domestic		
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		
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		
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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Surface Water

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

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

Return Flow Analysis

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
57. Do the purposes of the water rights proposed for change include irrigation?	☐ Y ☐ N	☐ F
a. If yes, does the proposed change include a change in place of use *and/or* 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Extended Return Flow Analysis

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? **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).* Bitterroot River	☐ 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

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
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? Well		☐ 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. Pumping test data and variance requests submitted to DNRC on 3/19/2025.	☐ A	☐ F

68. Submit Aquifer Test Data Form (Form 633) for each *new* well/pumping pit that will be constructed prior to technical analyses or *existing* well/pumping pit that is added by the change. If an aquifer test was already conducted for an *existing* 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 653 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 653 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. 500 gpm for each POD.	☐ 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 *new* or an *existing* well added by the change.	☐ A	☐ F

POD ID	**GWIC ID**	**Flow Rate**			**Volume**	**Period of Diversion**	**Depth**	**Measured or Estimated**	**New or Existing**
	(if available)	*Flow*	*GPM*	*CFS*	*AF*	*MM/DD-MM/DD*	*FT*		
Well 1	174876	500	☑	☐		01/01-12/31	455	Measured	Existing
Well 5	244440	500	☑	☐		01/01-12/31	430	Measured	New
Well 6	272191	500	☑	☐		01/01-12/31	432	Measured	New
Well 7	272196	500	☑	☐		01/01-12/31	435	Measured	New
Well 8	272197	500	☑	☐		01/01-12/31	393	Measured	New

Groundwater Analysis: Developed Spring

☐ Applicable ☑ Not Applicable

73. Have you measured each *new* developed spring or *existing* 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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 *new* pond added or *existing* 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 *new* or an *existing* pond.	☐ S	☐ F
76. Are any of the *new* ponds, or *existing* 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)? • 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.	☑ Y ☐ N	☐ F
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 ("*unchanged*") or will be retired ("*retired*"): 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 *unchanged* or *retired*. 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** *Flow Rate*	*GPM*	*CFS*	**Volume** *AF*	**Period of Diversion** *MM/DD-MM/DD*	**Depth** *FT*	**Measured or Estimated**	**Unchanged or Retired**
Well 1		500	☑	☐	805	01/01-12/31			unchanged
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					

79. Provide the pumping schedule for each well/pumping pit (*new*, *existing*, *unchanged*, or *retired*) for both *before* and *after* the proposed change. Use the same POD ID as the project maps. For *new* and *existing* wells/pumping pits, use the Proposed Use Map (question 9). For *unchanged* and *retired* wells/pumping pits use the Historical Use Map (question 8). Attach any additional pumping schedules using *"Additional Pumping Schedule (606P)" sheet*. For *retired* wells/pumping pits, mark "N/A" checkbox for after the change and for *new* 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

(Before) POD ID 1				**(After) POD ID** 1			
☐ 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**	**Voume (AF)**	**Month**	**Volume (AF)**
January	(constant all yr)	July		January	(constant all yr)	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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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 ("*unchanged*") or will be retired ("*retired*")? 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 *unchanged* pond or *retired* pond. Label the submittal with the POD ID and whether the pond is *unchanged* or *retired*.	☐ S	☐ F
c. Are any of the *unchanged* or *retired* 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

82. Provide the schedule of diversions for out-of-pond use for each pond (*new*, *existing*, *unchanged*, or *retired*) for both *before* and *after* the proposed change. Use the same POD ID as the project maps. For *new* and *existing* ponds, use the Proposed Use Map (question 9). For *unchanged* and *retired* ponds use the Historical Use Map (question 8). Attach any additional diversion schedules using the same format as the table below. For *retired* ponds, mark "N/A" checkbox for after the change and for *new* 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

(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? **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).* Bitterroot River	☐ A	☐ F

84. If an extended surface water depletion analysis is necessary to analyze impacts to identified surface water rights for the purpose of evaluating adverse effect, do you elect to answer non-mandatory questions 157 to 161 to provide information required for this extended surface water depletion analysis?	☐ 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 *and/or* 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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? **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).* Bitterroot River	☐ 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.		

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
94. Does the proposal include a temporary change? *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.* 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? _____		☐ F
96. For what purpose will the water rights be temporarily used? _____		☐ F
97. For how many years will the water rights be temporarily changed? _____		☐ 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.		

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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** *(MM/DD-MM/DD)*	**Period of Use** *(MM/DD-MM/DD)*	**Flow Rate** *Flow Rate*	*GPM*	*CFS*	**Volume** *(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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

106. Domestic and multiple domestic		
a. How many households will be served? _____		☐ F
b. Will the Department standard of 1 acre-foot per household be used to determine consumptive use?	☐ Y ☐ N	☐ F
i. If no, what 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)? Municipal		☐ 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 POUs, and the ditch measurement locations (requested in question 111.d). The map should be created on a historical image or topographic map with the following: section corners, township and range, scale bar, and north arrow.	☐ S	☐ F

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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 POUs, and additional ditch measurement locations (requested in question 114.e). The map should be created on an aerial photograph or topographic map with the following: section corners, township and range, scale bar, and north arrow.	☐ 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.		

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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: *Surface Acres x Maximum Depth (ft) x 0.5 = Capacity (AF)* _____	☐ 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.		

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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*	*AF*			*Flow*	*GPM*	*CFS*	*AF*
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*	*AF*			*Flow*	*GPM*	*CFS*	*AF*
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? *The volume of aquifer recharge water injected may not equal the volume of net depletions.* _____	☐ 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? *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).* _____ _____ _____	☐ A	☐ F
128.	Marketing for Mitigation/Aquifer Recharge		
	a. What is the proposed location of the reach where water is to be marketed (¼ ¼ ¼ section of the start and the end of the reach)? _____	☐ A	☐ F
	b. Is this marketing for mitigation	☐ Y ☐ N	☐ F
	i. If yes, by what means will water be made available? _____ _____ _____ _____	☐ A	☐ F

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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? *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).* _____ _____ _____	☐ 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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.		

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.		

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Non-Mandatory Questions for Criteria Analysis

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

Adverse Effect

Questions, Narrative Responses, and Tables	Check-boxes
142. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage.	☐ A
143. Explain how you can control your diversion in response to call being made.	☐ 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.	☐ A

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

147. When was the last time each water right proposed for change was appropriated and used beneficially? If there has been a period of nonuse, answer questions 147.a to 147.d. _____	
a. Why was the water right not used? _____ _____	☐ 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
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: _____	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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: _____	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

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. _____ _____	
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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.	

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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
13.a.iii	List supplemental municipal water rights for Town of Stevensville
13.a.iii.1.a	Describe historical and proposed use of supplemental water rights
13.a.iii.1.b	Quantify supplemental water rights
21.a	Optional: provide DEQ discharge permit number & information (will not be optional when Application is submitted)

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

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.

Bob Michalson — 4/22/2025

Applicant Signature — Date

Applicant Signature — Date

Jim Nave — 4/22/2025

Department Signature — Date

Docusign Envelope ID: 54611B49-2A70-4940-A498-609156546B58

Historical (H) Point of Diversion (Well 1)

Proposed (P) Points of Diversion (Wells 1, 5, 6, 7, 8)

Historical (H) Place of Use

Proposed (P) Place of Use

Township and Range Boundary

Section Boundary

N

0 700 1,400 Feet

Note: Permit 76H 89376-00 has three authorized points of diversion (Wells 1, 2, and 3); this analysis includes only the Well 1 portion of 76H-89376-00.

Historical and Proposed Points of Diversion and Places of Use

Well 1 Change Application
Unperfected Permit 76H 89376 00
Town of Stevensville, Montana

DRAFT

Aspect CONSULTING	MAR-2025	BY: JB / KMJ	FIGURE NO. 1
	PROJECT NO. 240106	REVISED BY: ---/---	

Data source credits: NewFields, Ravalli County || Basemap Service Layer Credits: Maxar, Microsoft, Maxar

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Attachment 1
Request for Preapplication Meeting
Town of Stevensville Application to Change 76H 89376-00
("Well 1 Change Application")

13.a.ii. Proposed place of use and water service area.

ID	Acres	Govt Lot	Qtr Sec	Sec	Twp	Rge	County
1			S2	23	9N	20W	RAVALLI
2				26	9N	20W	RAVALLI
3			SE	27	9N	20W	RAVALLI
4			E2E2SW	27	9N	20W	RAVALLI
5			E2W2E2SW	27	9N	20W	RAVALLI
6			S2NE	27	9N	20W	RAVALLI
7			S2NENE	27	9N	20W	RAVALLI
8			S2NENENE	27	9N	20W	RAVALLI
9			S2NWNENE	27	9N	20W	RAVALLI
10			SENWNE	27	9N	20W	RAVALLI
11			S2NENWNE	27	9N	20W	RAVALLI
12			E2SWNWNE	27	9N	20W	RAVALLI
13			SWSWNWNE	27	9N	20W	RAVALLI
14			SENWNWNE	27	9N	20W	RAVALLI
15			S2S2NENW	27	9N	20W	RAVALLI
16			E2SENW	27	9N	20W	RAVALLI
17			E2W2SENW	27	9N	20W	RAVALLI
18			W2NWSENW	27	9N	20W	RAVALLI
19			SESENWNW	27	9N	20W	RAVALLI
20			E2NESWNW	27	9N	20W	RAVALLI
21			E2	34	9N	20W	RAVALLI
22			E2E2W2	34	9N	20W	RAVALLI
23			E2W2E2W2	34	9N	20W	RAVALLI
24				35	9N	20W	RAVALLI

Missoula Water Resources Regional Office
PO Box 5004
2705 Spurgin Road, Bldg. C
Missoula, MT 59806-5004
(406) 721-4284

May 19, 2025

Town of Stevensville
PO Box 30
Stevensville, MT 59870

Re: Pre-Application No. 76H 30170801 Aquifer Testing Variance Request

Dear Town of Stevensville:

This correspondence is in response to the aquifer testing variance request form 653 submitted as part of your pre-application materials for a proposed change in water use, which was assigned the number 76H 30170801. For your variance request you submitted a Form 606-Aquifer Testing Addendum and Form 653 Variance Request for each of the four wells. For the proposed change authorization, only one 72-hour aquifer test is required for one well, while the remaining three wells then only require an 8-hour draw down yield test for adequacy of diversion. For this variance request, the Department has granted the variances required for one 72 hour test, and then used the remaining tests to meet the 8-hour draw down yield testing requirement for the remaining three wells. This has resulted in your requesting more variances to aquifer testing rules than required since there are fewer requirements for the 8-hour draw down yield tests.

On your Variance Request (Form 653), you request variances to the aquifer testing requirements found in Administrative Rules of Montana (ARM) 36.12.121 (3)(a), ARM 36.12.121 (3)(e)(iii), ARM 36.12.121 (3)(g) and ARM 36.12.121 (3)(h).

Upon consideration of your variance request the Department agrees to grant a variance to each of the Administrative Rules of Montana requested. For an explanation of the rational used by the Department to grant these variances, please refer to the enclosed DNRC Aquifer Testing Addendum review form.

If you have any questions or comments, please feel free to contact me.

Sincerely,

Jim Nave
Regional Manager

ARM 36.12.121 - Aquifer Testing Addendum (ATA) - Review

Department of Natural Resources and Conservation (DNRC)
Jack Landers, Groundwater Hydrologist, Water Sciences Bureau (WSB)

Applicant	Town of Stevensville		
Pre-Application/Application No.	N/A	**Date Sent to RO**	April 18, 2025
Regional Office (RO)	Missoula	**WSB Staff Name**	Jack Landers, Groundwater Hydrologist

This checklist identifies any deficiencies that would require a variance pertinent to Administrative Rules of Montana (ARM) 36.12.121. **Table 1** lists deficiencies that would require a variance, the recommended action and the rationale describing why the variance request could be considered appropriate. If the requirements of ARM 36.12.121 are satisfied for each item, the box will be checked next to that item indicating such.

Table 1: Deficiencies identified, recommended action and rationale from WSB**.** The first three rows in **Table 1** summarize the deficiencies identified for the November 19, 2012, 72-hr aquifer test. The last two rows in **Table 1** summarize the deficiencies identified for the other three aquifer tests that meet the minimum 8-hr duration for additional production wells (ARM 36.12.121 3(e)(i)).

☐ **No Deficiencies Identified**			
Test Duration	**Variance (ARM) (R=Requested; A=Additional)**	**Recommend Granting Variance Request**	**Rationale:**
72-hr	3(a) ☒ R ☐ A	☒ Yes ☐ No	Discharge increased to a maximum flow rate of 1,140 gpm 780 minutes after the test began, but decreased to within 5% of the average flow rate 1,100 minutes after the test began and remained within 5% of the average flow rate for the remainder of the test.
72-hr	3(g) ☒ R ☐ A	☒ Yes ☐ No	Background water levels in the Production Well were monitored for 2.7 days prior to the test. Background water levels were not monitored in the Observation Well. Background data for the Production Well is sufficient to evaluate water level trends.
72-hr	3(h) ☒ R ☐ A	☒ Yes ☐ No	Water level measurements were not recorded for 1,380 or 1,440 minutes elapsed time during the test. The data gaps do not preclude using the data to derive aquifer properties.
24-hr/72-hr	3(e)(iii) ☒ R ☐ A	☒ Yes ☐ No	Pumping departed by more than 5% of the average flow rate during the April 29, 2008 and January 29, 2013, aquifer tests. These tests satisfy the minimum 8-hr test requirement for additional production wells and do not affect the analyses used to derive aquifer properties.
24-hr/72-hr	☒ R ☐ A	☐ Yes ☒ No	Additional variances were requested for the April 29, 2008, January 29, 2013, and March 5, 2013, aquifer tests. These tests satisfy the minimum 8-hr test requirement for additional production wells and meet the requirements in ARM 36.12.121, with the exception of the discharge rate described above for 3(e)(iii). The other variances requested are not necessary.

36.12.121 ☒ (1) ☐ NA Aquifer testing design and procedures must follow standards procedures that are discussed in hydrogeology textbooks and professional literature.

36.12.121(2): Minimum information that must be submitted with applications, check if provided:

☒ **(a)** Map with labeled location of production and observation wells; and

☒ **(b)** ☐ **NA** Well logs of the production and observation wells; and

☒ **(c)** ☐ **NA** Form No. 633, in electronic format, with *all* information and data provided.

36.12.121 (3): Minimum testing procedures are as follows, check if met:

☐ **(a)** ☐ **NA** Pumping must be maintained throughout the duration of the test. The rate may not depart from the average pumping rate by more than +/- 5%.

☒ **(b)** ☐ **NA** The average pumping rate must be equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well.

☒ **(c)** ☐ **NA** The proposed pumping rate may be demonstrated by testing multiple wells as long as (e) is met by one well and the remaining flow rate is demonstrated by eight-hour drawdown and yield tests on additional production wells under (e)(ii) and e(iii).

☒ **(d)** ☐ **NA** Pumping rate must be measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633.

☒ **(e)** ☐ **NA** Minimum duration of pumping during an aquifer test must be 24 hours for a proposed pumping rate and volume equal to or less than 150 GPM or 50 AF, or 72 hours for a proposed pumping rate and volume greater than 150 GPM or 50 AF.

☒ **(e)(i)** ☐ **NA** At a minimum an eight-hour drawdown and yield test is required on all new production wells.

☒ **(e)(ii)** ☐ **NA** In addition to (e), if more than one new production well is proposed, at a minimum an eight-hour drawdown and yield test is required on all subsequent new production wells.

☐ **(e)(iii)** ☐ **NA** The testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h).

☒ **(f)** ☐ **NA** One or more observation wells must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well.

☐ **(g)** ☐ **NA** Background groundwater levels in the production well and observation well(s) must be monitored at frequent intervals for at least two days prior to beginning the aquifer test according to the Form No. 633.

☐ **(h)** ☐ **NA** Groundwater levels in the production and/or observation well(s) must be reported with 0.01-foot precision according to the schedule specified on Form No. 633.

Aquifer Testing Addendum, Forms 606-ATA

Town of Stevensville

Well 1 Change Application, Unperfected Permit 76H 89376 00

Proposed Additional Points of Diversion (POD): Wells 5, 6, 7, 8

Summary of Pumping Tests:

(All four tests are adequate for aquifer parameter analysis.)

- Well 5: 73-hour pumping test with observation wells
- Well 6: 75-hour pumping test with observation well
- Well 7: 25-hour pumping test with observation wells
- Well 8: 24-hour pumping test with observation wells

Forms 606-ATA Package Contents:

- Forms 606-ATA
  - Well 5
  - Well 6
  - Well 7
  - Well 8
- ATA.1.a Forms 653, Variance Requests
  - Well 5
  - Well 6
  - Well 7
  - Well 8
- ATA.2.a Map of Production and Observation Wells
- ATA.2.b Well Logs
  - Well 5
  - Well 6
  - Well 7
  - Well 8
  - TC-TW-1
- ATA.2.c Forms 633 (see Excel files)
  - Well 5
  - Well 6
  - Well 7
  - Well 8
- ATA.2.d Description of Testing Methods and Data Quality
  - Well 5
  - Well 6
  - Well 7
  - Well 8
- ATA.3 Narrative Responses
  - Well 5
  - Well 6
  - Well 7
  - Well 8

Forms 606-ATA

Well 5

Well 6

Well 7

Well 8

Well 5

Form No. 600-ATA/606-ATA *(04/2024)* **Applicant Name**

APPLICATION FOR BENEFICIAL WATER USE PERMIT OR APPLICATION TO CHANGE A WATER RIGHT

AQUIFER TESTING ADDENDUM

ARM 36.12.121

Complete this addendum if the source of water for a Beneficial Water Use Permit or Water Right Change application is groundwater. Check the box denoting the information is attached or data was collected following minimum testing procedures. On a separate document, address the required information. Attachments must be labeled as shown in the sections below (i.e., ATA.3.a).

Section 1. Attachments must make specific reference to the section item shown.

VARIANCE INFORMATION:

ATA.1.a ■ The Applicant submitted a variance request per ARM 36.12.123 for a variance from the requirements of ARM 36.12.121 and has provided a copy of the written request.

Section 2. Attachments must make specific reference to the section item shown.

MINIMUM INFORMATION THAT MUST BE SUBMITTED WITH APPLICATIONS:

ATA.2.a ■ Provide a map with labeled location of production and observation wells.

ATA.2.b ■ Provide well logs of production and observation wells.

ATA.2.c ■ Provide Form No. 633, in electronic format, with all information and data provided.

ATA.2.d ■ Provide a description of testing methods and quality of the aquifer test and data.

Section 3. Attachments must make specific reference to the section item shown.

MINIMUM TESTING PROCEDURES:

For any of the following, if the answer is “NO” or “NA”, provide information explaining why on a separate attachment.

ATA.3.a YES ❑ NO ■ NA ❑ Pumping was maintained throughout the duration of the test and the rate did not depart from the average pumping rate by more than 5%.

ATA.3.b YES ■ NO ❑ NA ❑ The average pumping rate is equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well.

ATA.3.c YES ■ NO ❑ NA ❑ The proposed pumping rate was demonstrated by testing multiple wells, and 3.e was met by one well and the remaining flow rate demonstrated by eight-hour drawdown and yield tests on additional production wells under 3.e.ii and 3.e.iii.

ATA.3.d YES ■ NO ❑ NA ❑ The pumping rate was measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633.

ATA.3.e YES ■ NO ❑ NA ❑ The duration of pumping during an aquifer test was at least 24 hours for a proposed pumping rate and volume equal to or less than 150 gpm or 50 acre-feet, or at least 72 hours for a proposed pumping rate and volume greater than 150 gpm or 50 acre-feet.

i. If a variance from 3.e was granted, at a minimum, eight-hour drawdown and yield tests were completed on all new production wells.

ii. In addition to 3.e, if more than one new production well is proposed, at a minimum, eight-hour drawdown and yield tests were completed on all subsequent new production wells.

iii. The testing procedures for a minimum eight-hour drawdown and yield test performed on any production well followed 3.a, 3.d, and 3.h.

ATA.3.f YES ■ NO ❑ NA ❑ One or more observation wells were completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough away so that well hydraulics do not affect the observation well.

ATA.3.g YES ❑ NO ■ NA ❑ Background groundwater levels in the production well and observation well(s) were monitored at frequent intervals for at least two days prior to beginning the aquifer test according to Form No. 633.

ATA.3.h YES ❑ NO ■ NA ❑ Water levels in the production well and observation well(s) were reported with 0.01-foot precision according to the schedule specified on Form No. 633 (8-hour drawdown and yield test only need to provide water levels for drawdown; no background and recovery data are necessary).

Well 6

Form No. 600-ATA/606-ATA *(04/2024)* **Applicant Name**

APPLICATION FOR BENEFICIAL WATER USE PERMIT OR APPLICATION TO CHANGE A WATER RIGHT

AQUIFER TESTING ADDENDUM

ARM 36.12.121

Complete this addendum if the source of water for a Beneficial Water Use Permit or Water Right Change application is groundwater. Check the box denoting the information is attached or data was collected following minimum testing procedures. On a separate document, address the required information. Attachments must be labeled as shown in the sections below (i.e., ATA.3.a).

Section 1. Attachments must make specific reference to the section item shown.

VARIANCE INFORMATION:

ATA.1.a ■ The Applicant submitted a variance request per ARM 36.12.123 for a variance from the requirements of ARM 36.12.121 and has provided a copy of the written request.

Section 2. Attachments must make specific reference to the section item shown.

MINIMUM INFORMATION THAT MUST BE SUBMITTED WITH APPLICATIONS:

ATA.2.a ■ Provide a map with labeled location of production and observation wells.

ATA.2.b ■ Provide well logs of production and observation wells.

ATA.2.c ■ Provide Form No. 633, in electronic format, with all information and data provided.

ATA.2.d ■ Provide a description of testing methods and quality of the aquifer test and data.

Section 3. Attachments must make specific reference to the section item shown.

MINIMUM TESTING PROCEDURES:

For any of the following, if the answer is “NO” or “NA”, provide information explaining why on a separate attachment.

ATA.3.a YES ❑ NO ■ NA ❑ Pumping was maintained throughout the duration of the test and the rate did not depart from the average pumping rate by more than 5%.

ATA.3.b YES ■ NO ❑ NA ❑ The average pumping rate is equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well.

ATA.3.c YES ■ NO ❑ NA ❑ The proposed pumping rate was demonstrated by testing multiple wells, and 3.e was met by one well and the remaining flow rate demonstrated by eight-hour drawdown and yield tests on additional production wells under 3.e.ii and 3.e.iii.

ATA.3.d YES ■ NO ❑ NA ❑ The pumping rate was measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633.

ATA.3.e YES ■ NO ❑ NA ❑ The duration of pumping during an aquifer test was at least 24 hours for a proposed pumping rate and volume equal to or less than 150 gpm or 50 acre-feet, or at least 72 hours for a proposed pumping rate and volume greater than 150 gpm or 50 acre-feet.

i. If a variance from 3.e was granted, at a minimum, eight-hour drawdown and yield tests were completed on all new production wells.

ii. In addition to 3.e, if more than one new production well is proposed, at a minimum, eight-hour drawdown and yield tests were completed on all subsequent new production wells.

iii. The testing procedures for a minimum eight-hour drawdown and yield test performed on any production well followed 3.a, 3.d, and 3.h.

ATA.3.f YES ■ NO ❑ NA ❑ One or more observation wells were completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough away so that well hydraulics do not affect the observation well.

ATA.3.g YES ❑ NO ■ NA ❑ Background groundwater levels in the production well and observation well(s) were monitored at frequent intervals for at least two days prior to beginning the aquifer test according to Form No. 633.

ATA.3.h YES ❑ NO ■ NA ❑ Water levels in the production well and observation well(s) were reported with 0.01-foot precision according to the schedule specified on Form No. 633 (8-hour drawdown and yield test only need to provide water levels for drawdown; no background and recovery data are necessary).

Well 7

Form No. 600-ATA/606-ATA *(04/2024)* **Applicant Name** Town of Stevensville

APPLICATION FOR BENEFICIAL WATER USE PERMIT OR APPLICATION TO CHANGE A WATER RIGHT

AQUIFER TESTING ADDENDUM

ARM 36.12.121

Complete this addendum if the source of water for a Beneficial Water Use Permit or Water Right Change application is groundwater. Check the box denoting the information is attached or data was collected following minimum testing procedures. On a separate document, address the required information. Attachments must be labeled as shown in the sections below (i.e., ATA.3.a).

Section 1. Attachments must make specific reference to the section item shown.

VARIANCE INFORMATION:

ATA.1.a ■ The Applicant submitted a variance request per ARM 36.12.123 for a variance from the requirements of ARM 36.12.121 and has provided a copy of the written request.

Section 2. Attachments must make specific reference to the section item shown.

MINIMUM INFORMATION THAT MUST BE SUBMITTED WITH APPLICATIONS:

ATA.2.a ■ Provide a map with labeled location of production and observation wells.

ATA.2.b ■ Provide well logs of production and observation wells.

ATA.2.c ■ Provide Form No. 633, in electronic format, with all information and data provided.

ATA.2.d ■ Provide a description of testing methods and quality of the aquifer test and data.

Section 3. Attachments must make specific reference to the section item shown.

MINIMUM TESTING PROCEDURES:

For any of the following, if the answer is “NO” or “NA”, provide information explaining why on a separate attachment.

ATA.3.a YES ❑ NO ■ NA ❑ Pumping was maintained throughout the duration of the test and the rate did not depart from the average pumping rate by more than 5%.

ATA.3.b YES ■ NO ❑ NA ❑ The average pumping rate is equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well.

ATA.3.c YES ■ NO ❑ NA ❑ The proposed pumping rate was demonstrated by testing multiple wells, and 3.e was met by one well and the remaining flow rate demonstrated by eight-hour drawdown and yield tests on additional production wells under 3.e.ii and 3.e.iii.

ATA.3.d YES ■ NO ❑ NA ❑ The pumping rate was measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633.

ATA.3.e YES ■ NO ❑ NA ❑ The duration of pumping during an aquifer test was at least 24 hours for a proposed pumping rate and volume equal to or less than 150 gpm or 50 acre-feet, or at least 72 hours for a proposed pumping rate and volume greater than 150 gpm or 50 acre-feet.

i. If a variance from 3.e was granted, at a minimum, eight-hour drawdown and yield tests were completed on all new production wells.

ii. In addition to 3.e, if more than one new production well is proposed, at a minimum, eight-hour drawdown and yield tests were completed on all subsequent new production wells.

iii. The testing procedures for a minimum eight-hour drawdown and yield test performed on any production well followed 3.a, 3.d, and 3.h.

ATA.3.f YES ■ NO ❑ NA ❑ One or more observation wells were completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough away so that well hydraulics do not affect the observation well.

ATA.3.g YES ❑ NO ■ NA ❑ Background groundwater levels in the production well and observation well(s) were monitored at frequent intervals for at least two days prior to beginning the aquifer test according to Form No. 633.

ATA.3.h YES ❑ NO ■ NA ❑ Water levels in the production well and observation well(s) were reported with 0.01-foot precision according to the schedule specified on Form No. 633 (8-hour drawdown and yield test only need to provide water levels for drawdown; no background and recovery data are necessary).

Well 8

Form No. 600-ATA/606-ATA *(04/2024)* **Applicant Name** Town of Stevensville

APPLICATION FOR BENEFICIAL WATER USE PERMIT OR APPLICATION TO CHANGE A WATER RIGHT

AQUIFER TESTING ADDENDUM

ARM 36.12.121

Complete this addendum if the source of water for a Beneficial Water Use Permit or Water Right Change application is groundwater. Check the box denoting the information is attached or data was collected following minimum testing procedures. On a separate document, address the required information. Attachments must be labeled as shown in the sections below (i.e., ATA.3.a).

Section 1. Attachments must make specific reference to the section item shown.

VARIANCE INFORMATION:

ATA.1.a ■ The Applicant submitted a variance request per ARM 36.12.123 for a variance from the requirements of ARM 36.12.121 and has provided a copy of the written request.

Section 2. Attachments must make specific reference to the section item shown.

MINIMUM INFORMATION THAT MUST BE SUBMITTED WITH APPLICATIONS:

ATA.2.a ■ Provide a map with labeled location of production and observation wells.

ATA.2.b ■ Provide well logs of production and observation wells.

ATA.2.c ■ Provide Form No. 633, in electronic format, with all information and data provided.

ATA.2.d ■ Provide a description of testing methods and quality of the aquifer test and data.

Section 3. Attachments must make specific reference to the section item shown.

MINIMUM TESTING PROCEDURES:

For any of the following, if the answer is “NO” or “NA”, provide information explaining why on a separate attachment.

ATA.3.a YES ■ NO ❑ NA ❑ Pumping was maintained throughout the duration of the test and the rate did not depart from the average pumping rate by more than 5%.

ATA.3.b YES ❑ NO ■ NA ❑ The average pumping rate is equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well.

ATA.3.c YES ■ NO ❑ NA ❑ The proposed pumping rate was demonstrated by testing multiple wells, and 3.e was met by one well and the remaining flow rate demonstrated by eight-hour drawdown and yield tests on additional production wells under 3.e.ii and 3.e.iii.

ATA.3.d YES ■ NO ❑ NA ❑ The pumping rate was measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633.

ATA.3.e YES ■ NO ❑ NA ❑ The duration of pumping during an aquifer test was at least 24 hours for a proposed pumping rate and volume equal to or less than 150 gpm or 50 acre-feet, or at least 72 hours for a proposed pumping rate and volume greater than 150 gpm or 50 acre-feet.

i. If a variance from 3.e was granted, at a minimum, eight-hour drawdown and yield tests were completed on all new production wells.

ii. In addition to 3.e, if more than one new production well is proposed, at a minimum, eight-hour drawdown and yield tests were completed on all subsequent new production wells.

iii. The testing procedures for a minimum eight-hour drawdown and yield test performed on any production well followed 3.a, 3.d, and 3.h.

ATA.3.f YES ■ NO ❑ NA ❑ One or more observation wells were completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough away so that well hydraulics do not affect the observation well.

ATA.3.g YES ❑ NO ■ NA ❑ Background groundwater levels in the production well and observation well(s) were monitored at frequent intervals for at least two days prior to beginning the aquifer test according to Form No. 633.

ATA.3.h YES ❑ NO ■ NA ❑ Water levels in the production well and observation well(s) were reported with 0.01-foot precision according to the schedule specified on Form No. 633 (8-hour drawdown and yield test only need to provide water levels for drawdown; no background and recovery data are necessary).

ATA.1.a Forms 653, Variance Requests

Well 5

Well 6

Well 7

Well 8

Well 5

VARIANCE REQUEST

ARM 36.12.123

Form No. 653 *(Revised 11/2024)*

For Department Use Only

Application # _____ Basin _____

Received Date _____

Received By _____

INSTRUCTIONS

Use this form to request a variance from the requirements of ARM 36.12.121 or 36.12.1702, as provided for in ARM 36.12.123.

Submit this completed form to the appropriate regional office by the deadline established during the preapplication meeting or, if a preapplication meeting is not held, include this request with your filed application or as part of a deficiency response.

Applicant Name Town of Stevensville

Mailing Address 206 Buck St

City Stevensville State MT Zip 59870

Home Phone _____ Other Phone 406.777.5271

Email: mayor@townofstevensville.gov

Representative Name (if other than Applicant) Jared Bean

☒ Representative is Consultant ☐ Representative is Attorney ☐ Representative is Other (describe) _____

Mailing Address PO Box 134

City Helena State MT Zip 59624

Home Phone _____ Other Phone 406.215.9917

Email: jared.bean@aspectconsulting.com

Identify from which section(s) of ARM 36.12.121 or 36.12.1702 you are requesting a variance. Refer to the rule for a full list of requirements in these sections.

☒ ARM 36.12.121 Aquifer Testing Requirements

- ☐ (2)(a) map with labeled location of production and observation wells
- ☐ (2)(b) well logs of the production and observation wells
- ☐ (2)(c) Form No. 633, in electronic format, with all information and data provided
- ☒ (3)(a) pumping rate may not depart from the average pumping rate by more than +/- 5%
- ☐ (3)(b) average pumping rate equal to or greater than the proposed flow rate if the application is for one well or if the total proposed rate for multiple wells can be obtained from a single well
- ☐ (3)(c) proposed pumping rate may be demonstrated by testing multiple wells as long as (e) is met by one well and the remaining flow rate is demonstrated by eight-hour drawdown and yield tests on additional production wells under (e)(i)(i)
- ☐ (3)(d) pumping rate must be measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633
- ☐ (3)(e) minimum duration of pumping during an aquifer test must be 24 hours for a proposed pumping rate and volume equal to or less than 150 GPM or 50 AF, or 72 hours for a proposed pumping rate and volume greater than 150 GPM or 50 AF
- ☐ (3)(e)(i) at a minimum an eight-hour drawdown and yield test is required on all new production wells
- ☐ (3)(e)(ii) In addition to (e), if more than one new production well is proposed, at a minimum an eight-hour drawdown and yield test is required on all subsequent new production wells
- ☐ (3)(e)(iii) the testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h)
- ☐ (3)(f) one or more observation wells must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well
- ☒ (3)(g) background groundwater levels in the production well and observation well(s) must be monitored at frequent intervals for at least two days prior to beginning the aquifer test according to the Form No. 633
- ☒ (3)(h) groundwater levels in the production and/or observation well(s) must be reported with 0.01-foot precision according to the schedule specified on Form No. 633

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative testing methodology or aquifer test data, if applicable. Attach additional sheets if necessary.

Well 5 2008 test.

(3)(a). See ATA.3.a. The data are adequate to estimate aquifer parameters.

(3)(g). See ATA.3.g. Background monitoring of the production well exceeded the minimum standard and demonstrated no significant trends. The data are adequate to estimate aquifer parameters.

(3)(h) See ATA.3.h. The data are sufficient to demonstrate adequacy of diversion and to estimate aquifer T and S values.

☐ ARM 36.12.1702 Physical Surface Water Availability

☐ (1)(b) at a minimum, three measurements that reflect high, moderate, and low flows during the period of diversion

☐ (4) once monthly measurements at department-approved intervals during the proposed period of diversion

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative measurement methodology, if applicable. Attach additional sheets if necessary.

Well 6

VARIANCE REQUEST

ARM 36.12.123

Form No. 653 *(Revised 11/2024)*

For Department Use Only

Application # _____ Basin _____

Received Date _____

Received By _____

INSTRUCTIONS

Use this form to request a variance from the requirements of ARM 36.12.121 or 36.12.1702, as provided for in ARM 36.12.123.

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☒ ARM 36.12.121 Aquifer Testing Requirements

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- ☐ (3)(d) pumping rate must be measured with a reliable measuring device and recorded with clock time according to the schedule on Form No. 633
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- ☐ (3)(e)(iii) the testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h)
- ☐ (3)(f) one or more observation wells must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well
- ☒ (3)(g) background groundwater levels in the production well and observation well(s) must be monitored at frequent intervals for at least two days prior to beginning the aquifer test according to the Form No. 633
- ☒ (3)(h) groundwater levels in the production and/or observation well(s) must be reported with 0.01-foot precision according to the schedule specified on Form No. 633

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative testing methodology or aquifer test data, if applicable. Attach additional sheets if necessary.

Well 6 2012 test.

(3)(a). See ATA.3.a. The data are adequate to estimate aquifer parameters.

(3)(g). See ATA.3.g. Background monitoring of OBS WELL 1 met the standard and showed no major trend in water level change. Production well background monitoring did not occur but is not necessary. The data are adequate to estimate aquifer parameters.

(3)(h) See ATA.3.h. The data are sufficient to demonstrate adequacy of diversion and to estimate aquifer T and S values.

☐ ARM 36.12.1702 Physical Surface Water Availability

☐ (1)(b) at a minimum, three measurements that reflect high, moderate, and low flows during the period of diversion

☐ (4) once monthly measurements at department-approved intervals during the proposed period of diversion

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative measurement methodology, if applicable. Attach additional sheets if necessary.

Well 7

VARIANCE REQUEST

ARM 36.12.123

Form No. 653 *(Revised 11/2024)*

For Department Use Only

Application # _____ Basin _____

Received Date _____

Received By _____

INSTRUCTIONS

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Email: jared.bean@aspectconsulting.com

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☒ ARM 36.12.121 Aquifer Testing Requirements

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- ☒ (3)(h) groundwater levels in the production and/or observation well(s) must be reported with 0.01-foot precision according to the schedule specified on Form No. 633

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative testing methodology or aquifer test data, if applicable. Attach additional sheets if necessary.

Well 7 2013 test.

(3)(a). See ATA.3.a. The data are adequate to estimate aquifer parameters.

(3)(g). See ATA.3.g. Background monitoring of OBS WELL 1 met the standard and showed no major trend in water level change. Production well and OBS WELL 2 background monitoring did not occur but is not necessary. The data are adequate to estimate aquifer parameters.

(3)(h) See ATA.3.h. The data are sufficient to demonstrate adequacy of diversion and to estimate aquifer T and S values.

☐ ARM 36.12.1702 Physical Surface Water Availability

☐ (1)(b) at a minimum, three measurements that reflect high, moderate, and low flows during the period of diversion

☐ (4) once monthly measurements at department-approved intervals during the proposed period of diversion

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative measurement methodology, if applicable. Attach additional sheets if necessary.

Well 8

VARIANCE REQUEST

ARM 36.12.123

Form No. 653 *(Revised 11/2024)*

For Department Use Only

Application # _____ Basin _____

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- ☐ (3)(e)(iii) the testing procedures for a minimum eight-hour drawdown and yield test performed on any production well must follow (a), (d), and (h)
- ☐ (3)(f) one or more observation wells must be completed in the same source aquifer as the proposed production well and close enough to the production well so that drawdown is measurable and far enough that well hydraulics do not affect the observation well
- ☒ (3)(g) background groundwater levels in the production well and observation well(s) must be monitored at frequent intervals for at least two days prior to beginning the aquifer test according to the Form No. 633
- ☒ (3)(h) groundwater levels in the production and/or observation well(s) must be reported with 0.01-foot precision according to the schedule specified on Form No. 633

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative testing methodology or aquifer test data, if applicable. Attach additional sheets if necessary.

Well 8 2013 test.

(3)(b). See ATA 3.b. The average Well 8 pumping rate was 325 gpm. The authorized Well 1 pumping rate under 76H 89376 00 is 500 gpm. A change application to add Well 8 as a point of diversion may limit the Well 8 pumping rate to 325 gpm or the maximum rate that the well can produce.

(3)(g). See ATA 3.g. The duration of background water level monitoring for the production well and OBS WELL 1 was approximately 1 day, rather than the minimum standard 2 days. No background water level monitoring occurred for OBS WELL 2 or 3.

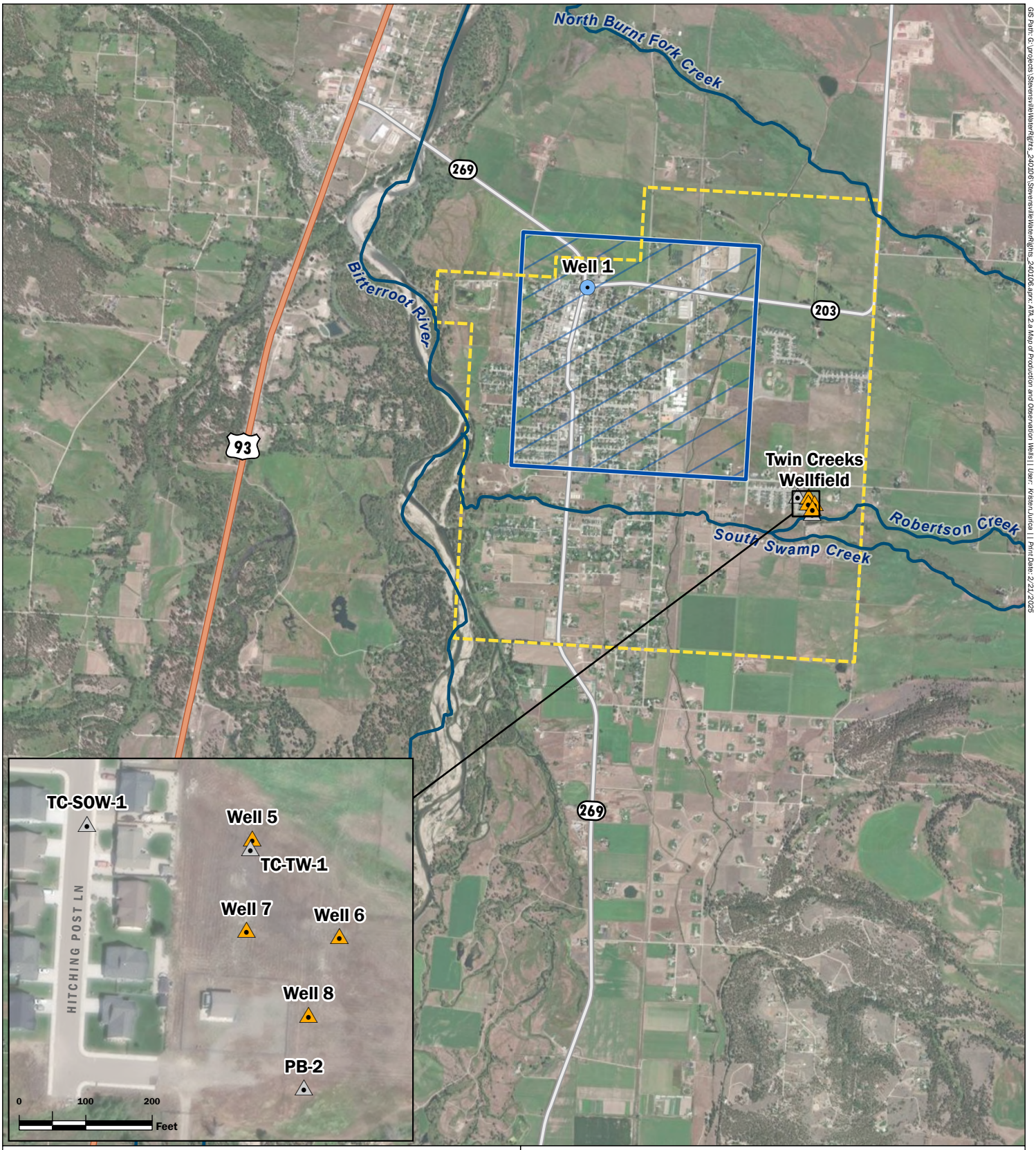
DNRC (2014) observed a slight increasing trend in the background data but determined that the trend was not significant enough to affect the aquifer test analysis.

(3)(h) See ATA 3.h. The data are sufficient to demonstrate adequacy of diversion and to estimate aquifer T and S values.

☐ ARM 36.12.1702 Physical Surface Water Availability
- ☐ (1)(b) at a minimum, three measurements that reflect high, moderate, and low flows during the period of diversion
- ☐ (4) once monthly measurements at department-approved intervals during the proposed period of diversion

Explain the specific variance you are requesting and the reason for requesting it. Also identify your proposed alternative measurement methodology, if applicable. Attach additional sheets if necessary.

ATA.2.a Map of Production and Observation Wells



76H 89376 00 Point of Diversion

ATA.2.a Well Locations

- Twin Creeks Wellfield
- Other Well
- Existing Place of Use
- Proposed Place of Use

N

0 1,500 3,000 Feet

ATA.2.a Map of Production and Observation Wells

Well 1 Change Application
Unperfected Permit 76H 89376 00
Town of Stevensville, Montana

Aspect Consulting	FEB-2025	BY: JB / KMJ	FIGURE NO. 1
	PROJECT NO. 240106	REVISED BY: ---/---	

Data source credits: NewFields, USGS NHD, MT DNRC, Ravalli County || Basemap Service Layer Credits: Maxar, Microsoft, Maxar

GIS Path: G:\projects\StevensvilleWaterRights_240106\StevensvilleWaterRights_240106.aprx: ATA.2.a Map of Production and Observation Wells | User: KristenJurica | | Print Date: 2/21/2025

ATA.2.b Well Logs

Well 5

Well 6

Well 7

Well 8

TC-TW-1

MONTANA WELL LOG REPORT

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

Other Options

Return to menu
Plot this site in State Library Digital Atlas
Plot this site in Google Maps
View scanned hydrologic assessment (4/15/2011 11:01:41 AM)
View scanned aquifer test (6/28/2018 11:01:45 AM)

Site Name: TWIN CREEKS PROPERTY
GWIC Id: 244440

Section 1: Well Owner(s)
1) ANDERSON, JOHN (MAIL)
346 EL CAIPTAN LOOP
STEVENSVILLE MT 59870 [04/22/2008]

Section 2: Location

Township	Range	Section	Quarter Sections
09N	20W	35	NE¼ NE¼ NW¼

County
RAVALLI

Geocode

Latitude	Longitude	Geomethod	Datum
46.500172	-114.078718	TRS-SEC	NAD83

Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot

Section 3: Proposed Use of Water
PUBLIC WATER SUPPLY (1)

Section 4: Type of Work
Drilling Method: DUAL ROTARY
Status: NEW WELL

Section 5: Well Completion Date
Date well completed: Tuesday, April 22, 2008

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	65	16
65	435	10

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-3	405	10.8	0.25		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
400	410	8.6		80-SLOT	SCREEN-CONTINUOUS-STAINLESS
410	430	8.6		60-SLOT	SCREEN-CONTINUOUS-STAINLESS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	65	BENTONITE	

Section 7: Well Test Data

Total Depth: 430
Static Water Level: 138
Water Temperature:

Air Test *

_ gpm with drill stem set at _ feet for _ hours.
Time of recovery _ hours.
Recovery water level _ feet.
Pumping water level _ feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks
AIR LIFTED MORE WATER THAN WE COULD MEASURE. GEOMATRIX DID THE FINAL PUMP TEST

Section 9: Well Log
Geologic Source
Unassigned

From	To	Description
0	53	GP, GRAVEL (BROKEN COBBLES), LIGHT TAN COLOR, 95% GRAVEL, SUBROUNDED WITH ANGULAR EDGES WHERE COBBLES HAVE BEEN BROKEN DURING DRILLING, FINE TO COARSE GRAVEL (<1 INCH TO 2.5 INCH IN SIZE), 5% SAND, COARSE, SUBANGULAR
53	55	CL, SANDY CLAY, YELLOW COLOR, HARNDNESS IS LOW TO MEDIUM, LOW PLASTICITY, CANNOT FORM RIBBON, COHESIVE, WET (WATER ADDED), 90% CLAY, 10% SAND, FINE TO MEDIUM, SUBANGULAR
55	65	CH, CLAY, YELLOW BROWN COLOR, PLASTIC, HARDNESS IS FIRM TO MEDIUM, CAN MAKE 2-INCH RIBBON, WET (WATER ADDED)
65	86	GP, GRAVEL, BULK COLOR, 95% GRAVEL, SUBANGULAR TO ANGULAR, 0.5 TO 3 INCH IN SIZE, 5% SAND, COARSE, SUBANGULAR, GRAVELS ARE POOR GRADE, FINE TO COARSE
86	98	CL, SANDY CLAY, TAN COLOR, 75% CLAY, MEDIUM PLASTICITY, HARDNESS IS LOW, CAN FORM 0.5-INCH RIBBON, COHESIVE, WET (WATER ADDED), 25% SAND, MEDIUM, ANGULAR
98	110	SW, SAND, BULK COLOR, 95% SAND, MEDIUM TO COARSE, SUBROUND TO SUBANGULAR, 5% CLAY, WELL-SORTED SAND
110	130	CH, CLAY, TAN COLOR, PLASTIC, HARDNESS IS FIRM TO MEDIUM, FORMS 1-INCH RIBBON, COHESIVE, WET (WATER ADDED)
130	134	GP, SANDY GRAVEL, TAN COLOR, 80% GRAVEL, POOR GRADE, FINE TO MEDIUM (0.5 TO 1 INCH IN SIZE), SUBANGULAR, 15% SAND, MEDIUM TO COARSE, SUBANGULAR, 5% CLAY
134	140	SW, SAND, BULK COLOR, 95% SAND, WELL SORTED, COARSE, SUBANGULAR, 5% CLAY
140	159	GW, SANDY GRAVEL, BULK COLOR, 90% GRAVEL, FINE TO MEDIUM, WELL GRADED, SUBANGULAR, 10% SAND, MEDIUM TO COARSE, SUBANGULAR TO SUBROUNDED
159	203	CH, CLAY, TAN, HIGH PLASTICITY, HARDNESS IS FIRM TO VERY FIRM, CAN FORM 2-INCH RIBBON, COHESIVE, WET
203	217	GW, GRAVEL WITH SAND, BULK COLOR, 95% GRAVEL, FINE TO MEDIUM, WELL-GRADED, SUBROUNDED TO SUBANGULAR, 5% SAND, MEDIUM, SUBROUNDED
217	220	SW, SAND, BULK COLOR, 95% SAND, FINE TO COARSE, ANGULAR TO SUBANGULAR, 5% GRAVELS, FINE, SUBANGULAR, TRACE CLAY, WELL-SORTED
220	230	CH, CLAY, TAN COLOR, VERY PLASTIC, HARDNESS IS FIRM TO VERY FIRM, CAN FORM 2-INCH RIBBON, COHESIVE, WET
230	248	GP-GC, CLAYEY GRAVEL, TAN-BULK COLOR, 90% GRAVEL, FINE TO 1-INCH IN SIZE, POOR GRADE, SUBANGULAR, 10% CLAY, LOW PLASITICTY, TRACE FINE SANDS AND MEDIUM SANDS, SUBANGULAR

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:	MARTIN WILSON
Company:	AK DRILLING- INC
License No:	WWC-624
Date Completed:	4/22/2008

Site Name: TWIN CREEKS PROPERTY
GWIC Id: 244440
Additional Lithology Records

From	To	Description
248	251	CL, SANDY CLAY, TAN COLOR, 95% CLAY, LOW PLASTICITY, HARDNESS IS LOW TO MEDIUM, DOES NOT FORM RIBBON, 5% SAND, MEDIUM TO FINE, SUBANGULAR
251	269	SP, SAND, BULK COLOR, 90% SAND, FINE TO COARSE, SUBROUNDED TO SUBANGULAR, POORLY SORTED, 5% GRAVEL, 0.5 TO 1 INCH IN SIZE, 5% CLAY
269	276	CL, SANDY CLAY, BROWN COLOR, 85% CLAY, MEDIUM PLASTICITY, LOW TO MEDIUM HARDNESS, DOES NOT FORM RIBBON, 15% SAND, FINE TO MEDIUM, SUBROUNDED, WELL-SORTED SAND
276	285	SW-SC, SAND, BULK COLOR, 90% SAND, MEDIUM TO COARSE, WELL-SORTED, 10% CLAY, SAND GRAINES ARE SUBROUNDED
285	298	GP, GRAVEL, BULK COLOR, 90% GRAVEL, POOR GRADE, SUBROUNDED TO SUBANGULAR, 10% SAND, MEDIUM, SUBROUNDED, TRACE FINES/CLAY
298	315	CL, SANDY CLAY, TAN COLOR, 75% CLAY, LOW PLASTICITY, HARDNESS IS MEDIUM, 25% SAND, MEDIUM TO COARSE, SUBANGULAR, WELL-SORTED 300GPM
315	323	GW, GRAVEL, BULK COLOR, 85% GRAVEL, 0.5-INCH IN SIZE, ROUNDED TO SUBROUNDED, 10% SAND, FINE TO MEDIUM, SUBANGULAR, 5% CLAY, SAND IS WELL-SORTED
323	340	CL, SANDY CLAY, TAN COLOR, 85% CLAY, LOW PLASTICITY, HARDNESS IS LOW, NONCOHESIVE, 10% SAND, MEDIUM, SUBROUNDED TO ROUND, 5% GRAVELS, FINE, SUBROUNDEDSTOPPED DRILLING AT 335 FT BGS ON 04.15.08; RESUMED AT 335 FT BGS ON 04.16.08; USED FOAM TO GETTING CUTTI
340	348	SW-SC, SAND, WHITE-TAN COLOR, 90% SAND, FINE TO COARSE, SUBROUNDED, 10% CLAY, SUSPENDED IN MATRIX
348	361	SW, SAND WITH GRAVELS, BULK COLOR, 80% SAND, FINE TO COARSE, WELL-SORTED SAND, SUBROUNDED TO SUBANGULAR, 15% GRAVEL, FINE TO 1-INCH IN SIZE, ROUNDED TO SUBROUND, 5% CLAY FLOW RATE ~25 GPM WITH LARGE AMOUNT OF FINE SAND IN WATER @ 350 FT BGS
361	368	CL, SANDY CLAY, TAN COLOR, 70% CLAY, PLASTICITY IS HIGH, HARDNESS IS MEDIUM, 30% SAND, FINE TO MEDIUM, SUBROUNDED, WELL-SORTED SAND, FORMS 3-INCH RIBBON BEFORE BENDING FLOW RATE ~37.5 GPM WITH A LARGE AMOUNT OF FINE SAND @ 361 FT BGS
368	373	SW, SAND WITH GRAVEL, TAN COLOR, 80% SAND, FINE TO COARSE, SUBROUNDED TO ROUND, WELL-SORTED, 15% GRAVEL, FINE, SUBROUNDED, 5% CLAY
373	383	CL, SANDY CLAY, TAN COLOR, 70% CLAY, LOW PLASTICITY, HARDNESS IS MEDIUM, DOES NOT FORM RIBBON, 30% SAND, MEDIUM, SUBROUNDED, WELL SORTED
383	388	GW, GRAVEL, BULK COLOR, 85% GRAVEL, SUBROUNDED TO SUBANGULAR, WELL-GRADED, 10% SAND, FINE TO MEDIUM, SUBANGULAR, 5% CLAY FLOW RATE ~30 GPM AT 383 FT BGS WITH A LARGE AMOUNT OF SEDIMENT
388	400	CL, SAND CLAY, TAN COLOR, 70% CLAY, LOW PLASTICITY, HARDNESS IS MEDIUM, DOES NOT FORM RIBBON, 30% SAND, MEDIUM, SUBROUNDED, WELL-SORTED
400	408	GP, GRAVEL, BULK COLOR, 95% GRAVEL, POOR GRADE, FINE TO 1.5-INCH IN SIZE, SUBANGULAR, 5% SAND, MEDIUM, SUBANGULAR, POOR GRADE
408	410	CL, SANDY CLAY, TAN COLOR, 75% CLAY, LOW PLASTICITY, HARDNESS IS SOFT, FORMS 1-INCH RIBBON, 10% SAND, MEDIUM, SUBANGULAR, 5% VERY FINE GRAVELS
410	435	GW, GRAVEL, BULK COLOR, 95% GRAVEL, WELL GRADED, FINE TO 2-INCH IN SIZE, SUBANGULAR, 5% SAND, COARSE, SUBANGULAR TO SUBROUND FLOW RATE >300 GPM AT 410 FT BGS WHICH CLEARED UP QUICKLY

MONTANA WELL LOG REPORT

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

Other Options

Return to menu
Plot this site in State Library Digital Atlas
Plot this site in Google Maps
View scanned aquifer test (6/26/2018 11:07:29 AM)

Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272191

Section 1: Well Owner(s)

1) TOWN OF STEVENSVILLE (MAIL)
P.O BOX 30
STEVENSVILLE MT 59870 [10/10/2012]

Section 2: Location

Township	Range	Section	Quarter Sections
09N	20W	35	NE¼ NE¼ NW¼

County	Geocode
RAVALLI	1317643510128000

Latitude	Longitude	Geomethod	Datum
46.500172	-114.078718	TRS-SEC	NAD83

Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot
EQ 12-1834		14

Section 3: Proposed Use of Water

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: DUAL ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Wednesday, October 10, 2012

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	30	16
30	435	12.75

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	395	12.8	0.375		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
392	397	11.5		TIGHT WIND	SCREEN-CONTINUOUS-STAINLESS
397	427	11.5		80 SLOT	SCREEN-CONTINUOUS-STAINLESS
427	432	10.75		SOLID SUMP BOTTOM PLATE	SCREEN-TIGHT WIND STAINLESS STEEL

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	30	CEMENT	n

Section 7: Well Test Data

Total Depth: 435
Static Water Level: 142.25
Water Temperature:

Pump Test *

Depth pump set for test _ feet.
1018 gpm pump rate with _ feet of drawdown after 75.92 hours of pumping.
Time of recovery _ hours.
Recovery water level _ feet.
Pumping water level _ feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

WELL NUMBER PB-1 K PACKER SEALS BETWEEN SCREEN AND CASING

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	33	GRAVEL AND BROKEN COBBLES, TAN TO YELLOWISH BROWN, 95% GRAVEL, SUBROUNDED, FINE TO COARSE (<0.5 TO 2.5 + INCHES) 5% SAND, COARSE
33	47	SAND AND GRAVEL, TAN, 50% GRAVEL, SUBANGULAR, FINE TO MEDIUM(<0.5 TO 1 INCHES) , SAND 50%, FINE TO COARSE GRAINED, SATURATED
47	70	SANDY CLAY, TAN, 65% CLAY, 30% SAND, 5% GRAVEL (<0.5 INCHES), SATURATED
70	82	FAT CLAY, YELLOWISH BROWN, FIRM TO MEDIUM HARDNESS, PLASTIC
82	88	SANDY CLAY, TAN TO YELLOWISH CLAY, SOUPY CONSISTENCY
88	100	SILTY GRAVELY SAND, 80% SAND FINE TO COARSE, 10% GRAVEL SUBANGULAR (<1 INCHES), 10% SILT
100	105	CLAY WITH SAND AND GRAVEL, TAN, 75% CLAY/SILT, 15% SAND, <10% GRAVEL
105	110	CLAY, TAN, MEDIUM HARDNESS, PLASTIC
110	135	SILTY SAND WITH MINOR CLAY, 75% SAND, COARSE TO VERY COARSE, SOUPY CONSISTENCY
125	128	CLAY/SILT MIXTURE, MODERATE PLASTICITY
128	129	POORLY GRADED COARSE SAND AND PEA GRAVEL
129	131	CLAY/SILT MIXTURE, MODERATE PLASTICITY
131	135	POORLY GRADED COARSE SAND WITH GRAVEL, 1 INCH MINUS -30 GPM
135	137	CLAY/SILT MXTURE PLASTIC
135	138	COARSE SAND WITH PEA GRAVEL, 60% SAND, COARSE TO VERY COARSE, 35% FINE GRAVEL (<0.25 INCHES, SUBANGULAR

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: MARTIN WILSON
Company: AK DRILLING INC
License No: WWC-624
Date Completed: 10/10/2012

Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272191
Additional Lithology Records

From	To	Description
137	138	SAND, MEDIUM TO VERY FINE WITH SILT
138	152	SILT/CLAY MIXTURE
138	154	CLAY WITH GRAVEL, TAN, 25% VERY COARSE SAND AND FINE GRAVEL IN CLAY MATRIX
152	164	POORLY GRADED FINE GRAVEL WITH SAND -25 GPM
154	170	CLAY WITH SAND AND GRAVEL,T AN, 75% CLAY/SILT, 15% SAND, 10% GRAVEL
164	165	SILT/CLAY MIXTURE
165	177	POORLY-GRADED COARSE SAND WITH GRAVEL, BROWN W/ IRON PARTICLES -30 GPM (AVOID DUE TO WATER QUALITY)
177	178	CLAY/SILT MIXTURE, BROWN
178	180	SAND, FINE
180	184	SAND, FINE TO COARSE WITH MINOR GRAVEL 1/2 INCH MINUS
184	186	POORLY GRADED COARSE SAND AND GRAVEL, 1 INCH MINUS
186	189	POORLY GRADED GRAVEL WITH COARSE SAND, 1 INCH MINUS
189	196	WELL GRADED SAND, FINE TO COARSE WITH MINOR GRAVEL
196	198	SANDY SILT, VERY FINE, LOW PLASTICITY
198	200	POORLY GRADED SAND, MEDIUM TO FINE
200	203	SAND WITH SILT, MEDIUM TO FINE GRADING TO SANDY SILT
203	207	SAND WITH SILT,FINE
207	217	POORLY GRADED FINE TO VERY FINE SAND
217	220	COARSE SAND AND GRAVEL
220	221	SANDY SILT/SILTY SAND
221	228	ALTERNATING LENSES OF POORLY -GRADED SANDS AND GRAVEL, COARSE TO MEDIUM GRAINED
228	238	SAND, FINE TO MEDIUM GRAINED WITH SILT
238	242	SAND, FINE TO MEDIUM GRAINED WITH MINOR PEA GRAVEL
242	252	SILT WITH VERY FINE SAND, LOW PLASTICITY
252	255	WELL GRADED SAND WITH GRAVEL AND SILT
255	256	PEA GRAVEL WITH COARSE SAND -200 GPM
256	258	SAND, MEDIUM TO COARSE, W/ MINOR GRAVEL (15%)
258	260	SAND, MEDIUM TO COARSE
260	261	SAND,FINE TO VERY FINE WITH SILT
261	263	SAND, FINE TO COARSE WITH SILT AND MINOR GRAVEL (10%)
263	265	SAND AND GRAVEL(25%) 1/2 INCH MINUS -50 GPM
265	267	SAND, VERY FINE TO COARSE WITH SOME SILT AND MINOR GRAVEL (<10%)
267	269	SANDY SILT/CLAY MIXTURE, LOW PLASTICITY
269	280	POORLY GRADED SILTY SAND GRADING TO SANDY SILT, LOW PLASTICITY
280	294	SILT/CLAY MIXTURE WITH VERY FINE SAND
294	298	POORLY GRADED SAND WITH GRAVEL (15%) 100 GPM
298	302	POORLY GRADED SAND AND PEA GRAVEL (55%) 200-300 GPM AND SURGING
302	303	SILT AND VERY FINE SANDY SILT, LOW PLASTICITY
303	306	POORLY GRADED SAND AND PEA GRAVEL
306	307	WELL GRADED GRAVEL WITH SILT AND SAND
307	320	WELL GRADED SAND WITH SILT, FINE TO COARSE. THIN GRAVEL SEAM AT 310 FEET
320	331	WELL GRADED SAND WITH MINOR GRAVEL (<10%)
331	335	WELL GRADED SAND, RUST COLORED WITH IRON OXIDE PARTICLES -AVOID DUE TO WATER QUALITY
336	346	WELL GRADED SAND WITH TRACE OF FINE GRAVEL-80 GPM
346	350	WELL GRADED SAND, FINE TO COARSE
350	363	POORLY GRADED SAND WITH SOME FINE GRAINED GRAVEL (10%-15%), 80 GPM
363	365	WELL GRADED SAND WITH SOME FINE GRAINED GRAVEL (10-15%)
365	377	WELL GRADED COARSE SAND WITH MINOR FINE TO MEDIUM GRAVEL -300 GPM @370 FT
377	381	WELL GRADED COARSE SAND WITH MINOR FINE TO MEDIUM GRAVEL, RUSTY BROWN WATER AND SAND W/SOME IRON OXIDE PARTICLES
381	383	WELL GRADED COARSE SAND WITH MINOR FINE TO MEDIUM GRAVEL, SLIGHT IRON OXIDE STAINING
383	385	SAND,FINE TO COARSE GRAINED
385	390	POORLY GRADED SAND, COARSE GRAINED WITH SOME FINE GRAINED GRAVEL (10-20%) NO IRON OXIDE STAINING
390	397	WELL GRADED SAND WITH CLAY/SILT BALLS (HIGH PLASTICITY)

397	405	WELL GRADED SAND WITH FINE TO COARSE GRAINED GRAVEL -350 GPM
405	410	WELL GRADED SAND WITH FINE GRAVEL AND CLAY/SILT (BALLS) LIKELY THIN STRINGERS OF FAT CLAY INTERBEDDED IN SANDS
410	435	WELL GRADED SAND WITH FINE TO COARSE GRAVEL (10-20%) AND TRACE OF SILT

MONTANA WELL LOG REPORT

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

Other Options

Return to menu
Plot this site in State Library Digital Atlas
Plot this site in Google Maps
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Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272196

Section 1: Well Owner(s)

1) TOWN OF STEVENSVILLE (MAIL)
P.O BOX 30
STEVENSVILLE MT 59870 [10/22/2012]

Section 2: Location

Township	Range	Section	Quarter Sections
09N	20W	35	NE¼ NE¼ NW¼

County	Geocode
RAVALLI	1317643510128000

Latitude	Longitude	Geomethod	Datum
46.500172	-114.078718	TRS-SEC	NAD83

Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot
EQ 12-1834		1A

Section 3: Proposed Use of Water

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: DUAL ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Monday, October 22, 2012

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	30	16
30	435	12.75

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	397	12.8	0.375		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
395	400	11.5		TIGHT WIND	SCREEN-CONTINUOUS-STAINLESS
400	410	11.5		80SLOT	SCREEN-CONTINUOUS-STAINLESS
410	420	11.5		30SLOT	SCREEN-CONTINUOUS-STAINLESS
420	430	11.5		80SLOT	SCREEN-CONTINUOUS-STAINLESS
430	435	10.75		SOLID SUMP BOTTOM PLATE	SCREEN-CONTINUOUS-STAINLESS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	30	CEMENT	n

Section 7: Well Test Data

Total Depth: 435
Static Water Level: 140.78
Water Temperature:

Pump Test *

Depth pump set for test _ feet.
807 gpm pump rate with _ feet of drawdown after 25.3 hours of pumping.
Time of recovery _ hours.
Recovery water level _ feet.
Pumping water level _ feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

PB-3 K-PACKER SEAL BETWEEN CASING AND SCREEN

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	29	TAN TO YELLOWISH TAN TO BROWN SANDY GRAVEL TO GRAVELLY SAND, BOTH WITH COBBLES AND SMALL BOULDERS, TRACE SILT, DENSE WET AT APP. 10 FEET.
29	34	TAN TO YELLOWISH BROWN SANDY GRAVEL, TRACE SILT, POORLY GRADED, WET DENSE
34	90	TAN TO YELLOWISH TAN TO BROWN SANDY GRAVEL TO GRAVELLY SAND, BOTH WITH SILTY CLAY, DENSE, WET, POORLY GRADED
90	118	YELLOWISH TAN SILTY CLAY TO CLAEYEY SILT, WET, MEDIUM PLASTICITY
118	124	YELLOWISH TAN TO YELLOWISH GRAY SILTY SAND WITH GRAVEL, POORLY GRADED
124	152	YELLOWISH TAN TO YELLOWISH GRAY GRVELLY SAND WITH TRACE SILT, MEDIUM TO COARSE GRAINED SAND, FINE TO MEDIUM GRAINED GRAVEL, SUB-ANGULAR WET
152	163	YELLIWSH TAN TO BROWN SILTY CLAY, MEDIUM PLACTISICTY, MOIST
163	178	YELLOWISH TAN GRAVELLY SAND WITH SILTY CLAY, WET, POORLY-GRADED
178	193	YLLIWSH TO TO BROWN SILTY CLAY, STIFF, MEDIUM TO HIGH PLASTICITY, WET, DENSE, TRACE SAND
193	197	YELLOWISH TAN TO YELLOWISH GRAY GRAVELLY SAND WITH SILTY CLAY, SAND IS FINE TO MEDIUM-GRAINED, POORLY GRADED
197	222	YELLOWISH TAN TO REDDISH BROWN SILTY CLAY, MEDIUM PLASTICITY, DENSE
222	226	BROWN TO TAN WEAKLY CEMENTED SILLTSTONE/SANDSTONE
226	237	YELLOWISH TAN TO BROWN SILTY ,SANDY CLAY, SAND IS FINE-GRAINED
237	242	POORLY-GRADED SANDY GRAVEL, WET, DENSE, YELLOWISH GRAY, SUB-ANGULAR GRAVEL
242	247	YELLOWISH TAN TO BROWN GRAVELLY SAND WITH SILTY CLAY, DENSE, WET

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: MARTIN WILSON
Company: AK DRILLING INC
License No: WWC-624
Date Completed: 10/22/2012

Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272196
Additional Lithology Records

From	To	Description
247	256	YELLOWISH TAN TO BROWN SILTY CLAY WITH TRACE SAND, DENSE, MEDIUM PLASTICITY
256	267	POORLY-GRADED, MEDIUM TO COARSE-GRAINED SAND, TRACE GRAVEL
267	279	REDDISH BROWN WEAKLY CEMENTED SILTSTONE/SANDSTONE
279	285	POORLY GRADED GRAVELLY SAND TO SANDY GRAVEL, SAND IS MEDIUM TO COARSE-GRAINED, GRAVEL IS MEDIUM TO FINE GRAINED-50 GPM
285	300	YELLOWISH TAN SILTY CLAY WITH FINE-GRAINED SAND, MEDIUM PLASTICITY
300	307	POORLY-GRADED GRAVELLY SAND, SAND IS MEDIUM TO COARSE-GRAINED, GRAVEL IS FINE GRAINED-50 GPM
307	312	YELLOWISH TAN SILTY CLAY WITH FINE-GRAINED SAND, MEDIUM PLASTICITY
312	330	POORLY GRADED YELLOWISH TAN GRAVELLY SAND WITH SILT, MEDIUM TO COARSE-GRAINED SAND, GOOD WATER-75 GPM
330	340	YELLOWISH TAN TO TAN SILTY CLAY, LOW PLASTICITY
340	348	YELLOWISH TAN TO TAN, WELL GRADED, GRAVELLY SAND, TRACE SILT-50 GPM
348	352	YELLOWISH TAN TO TAN, POORLY GRADED GRAVELLY SAND, TRACE SILT, GOOD WATER-75 GPM
352	355	YELLOWISH TAN SILTY CLAY WITH FINE GRAINED SAND AND GRAVEL, NON-PLASTIC, SLIGHTLY CEMENTED
355	361	YELLOWISH TAN, POORLY GRADED FINE TO VERY FINE-GRAINED SAND
361	370	POORLY GRADED SILTY SAND TO SANDY SILT, SAND IS VERY FINE TO FINE GRAINED, BOTH WITH TRACE, CLAY WET
370	375	YELLOWISH TAN SILTY CLAY WITH FINE GRAINED SAND
375	387	YELLOWISH TAN TO TAN, WELL GRADED GRAVELLY SAND, TRACE SILT-50-60 GPM
387	400	YELLOWISH TAN TO BROWN WEAKLY CEMENTED SILTSTONE/SANDSTONE
400	414	POORLY GRADED GRAVELLY SAND TO SANDY GRAVEL, SAND IS MEDIUM TO COARSE-GRAINED, GRAVEL IS MEDIUM TO FINE-GRAINED-200 + GPM
414	415	YELLOWISH TAN TO BROWN WEAKLY CEMENTED SILTSTONE/SANDSTONE
415	433	POORLY-GRADED GRAVELLY SAND TO SANDY GRAVEL, SAND IS MEDIUM TO COARSE GRAINED, GRAVEL IS MEDIUM TO FINE GRAINED-200+GPM
433	435	REDDISH BROWN SILTY CLAY, LOW PLASTICITY, DENSE

MONTANA WELL LOG REPORT

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

Other Options

Return to menu
Plot this site in State Library Digital Atlas
Plot this site in Google Maps

Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272197

Section 1: Well Owner(s)

1) TOWN OF STEVENSVILLE (MAIL)
P.O BOX 30
N/A MT 59870 [01/23/2013]

Section 2: Location

Township	Range	Section	Quarter Sections
09N	20W	35	NE¼ NE¼ NW¼

County	Geocode
RAVALLI	17643510128-0000

Latitude	Longitude	Geomethod	Datum
46.500172	-114.078718	TRS-SEC	NAD83

Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot
		1A

Section 3: Proposed Use of Water

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: DUAL ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Wednesday, January 23, 2013

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	30	16
30	455	12.75

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	327	12.8	0.375		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
325	330	11.5		TIGHT WIND	SCREEN-CONTINUOUS-STAINLESS
330	348	11.5		80SLOT	SCREEN-CONTINUOUS-STAINLESS
348	376	11.5		TIGHT WIND	SCREEN-CONTINUOUS-STAINLESS
376	388	11.5		90SLOT	SCREEN-CONTINUOUS-STAINLESS
388	393	10.75		SOLID SUMP BOTTOM PLATE	SCREEN-CONTINUOUS-STAINLESS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	30	CEMENT	n

Section 7: Well Test Data

Total Depth: 455
Static Water Level: 142.28
Water Temperature:

Pump Test *

Depth pump set for test _ feet.
325 gpm pump rate with _ feet of drawdown after 24 hours of pumping.
Time of recovery _ hours.
Recovery water level _ feet.
Pumping water level _ feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

PB-4 K PACKER SEALS BETWEEN CASING AND SCREEN

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	35	ALTERNATING SEQUENCES OF TAN GRAVELLY SAND TO SANDY GRAVEL, BOTH WITH COBBLES AND SMALL BOULDERS, MOIST, DENSE, POORLY GRADED,SUBANGULAR-MAKING A LITTLE WATER
35	40	TAN, GRAVELLY SAND, MOIST
40	46	GRAVELLY CLAY, MOIST, 1/4 INCH MINUS GRAVEL, ROUNDED TO SUB-ROUNDED
46	52	WELL GRADED TAN SAND WITH SILT
52	55	YELLOWISH TAN SAND WITH FINE GRAVEL (10%) ANGULAR TO SUB ROUNDED
55	70	YELLOWISH TAN CLAY WITH FINE GRAVEL, DENSE, POORLY GRADED, SUB ANGULAR GRADING TO CLAYEY SILT, SATURATE, SOUPY
70	84	BUFF TAN GRADING TO BROWN FAT CLAY, MEDIUM STIFF, PLASTIC
84	95	GRAVELLY LEAN SILT, FINE TO MEDIUM GRAVEL, SUB ANGULAR TO ANGULAR-SOUPY
95	104	YELLIWSH TAN CLAY, MEDIUM STIFF, LITTLE OR NO WATER
104	108	FINE GRAVEL
108	111	GRAVELLY LEAN CLAY, GRADING TO SANDY LEAN CLAY, SATURATED/SOUPY
111	123	OLIVE BROWN SANDY SILT WITH CLAY, SATURATED, SOUPY
123	135	GRAVELLY SAND INTERBEDDED WITH THIN SILTY CLAY STRINGERS, FINE GRAVEL, SUBROUNDED TO ROUNDED
136	143	FINE TO COARSE GRAVEL, SUB ANGULAR TO SUB ROUNDED -15 GPM
143	148	MEDIUM STIFF FAT CLAY WITH VERY FINE SAND

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: MARTIN WILSON
Company: AK DRILLING INC
License No: WWC-624
Date Completed: 1/23/2013

Site Name: TOWN OF STEVENSVILLE
GWIC Id: 272197
Additional Lithology Records

From	To	Description
148	155	TANNISH BROWN SANDY SILT WITH CLAY
155	175	OLIVE BROWN SANDY SILT INTERBEDDED WITH SILTY CLAYEY VERY FINE SAND WITH FINE GRAVEL-LITTLE WATER
175	186	SANDY GRAVEL TO GRAVELLY SAND, FINE GRAVEL GRADING TO SILTY SAND AND GRAVEL
186	190	SANDY LEAN CLAY
190	197	VERY FINE SAND WITH SILT, INTERBEDDED WITH SAND AND FINE GRAVEL-20-30 GPM
197	206	OLIVE BROWN CLAY, MEDIUM STIFF, LITTLE TO NO WATER
206	208	CLAYEY SAND, VER FINE GRAINED, SOUPY AND SATURATED
208	215	MEDIUM STIFF FAT CLAY, PLASTIC
215	233	HARD SILTSTONE, CLAYSTONE, NON PLASTIC, LITTLE TO NO WATER
233	247	SILTSTONE CLAYSTONE GRADING TO SANDY CLAY, VERY FINE SAND, SATURATED, SOUPY AT BOTTOM
247	248	GRAVEL WITH SAND
248	255	OLIVE BROWN SANDY SILT WITH CLAY, VERY FINE SAND, SATURATED, SOUPY
255	260	OLIVE BROWN CLAY, SILT MIXTURE-SATURATED, SOUPY
260	270	SILTY SAND, FINE TO COARSE (85% SAND -30 GPM
270	285	CHOCOLATE BROWN SILTSTONE
285	289	MOCHA BROWN SAND WITH SALT, VERY FINE SALT -15-20 GPM
289	297	OLIVE BROWN SILT-CLAY MIXTURE
297	302	SAND WITH SILT, VERY FINE SAND
302	303	SILTY SAND AND GRAVEL -50 GPM-DOESN'T CLEAN UP
303	310	SILTY SAND, VERY FINE SAND, SATURATED/SOUPY
310	314	SILT-CLAY
314	315	SILTY SAND, VERY FINE SAND
315	325	SAND AND GRAVEL MIXTURE, COARSE SAND AND FINE TO MEDIUM GRAVEL
325	335	GRAVEL WITH COARSE SAND (25%) FINE TO MEDIUM GRAVEL-150 GPM
335	350	SAND AND GRAVEL, COARSE SAND AND FINE GRAVEL, SUB ANGULAR TO SUB ROUNDED, STILL MAKING SIGNIFICANT WATER
350	358	MEDIUM STIFF FAT SILT-CLAY-PLASTIC-LITTLE TO NO WATER
358	375	SANDY SILT WITH CLAY,VERY FINE SAND, SATURATED
375	390	SANDY GRAVEL,FINE GRAVEL-200 GPM
390	393	SILT/CLAY, LITTLE TO NO WATER
393	397	SAND WITH SILT, FINE TO COARSE SAND, ORANGE YELLOW IRON OXIDED DISCHARGE SIGNIFICANT WATER
397	398	PARTIALLY IRON OXIDE CEMENTED SILTSTONE IN CUTTINGS
398	405	SAND,VERY FINE TO FINE,ORANGE YELLOW IRON OXIDED DISCHARGE
405	415	SAND WITH FINE GRAVEL AND SILT, COARSE SAND AND PEA GRAVEL-SIGNIFICANT WATER @415 FT BAGS (50-75 GPM)DOESNT CLEAN SAMPLE
415	430	SAND WITH FINE GRAVEL,COARSE SAND AND PEA GRAVEL,SUBROUNDED
430	435	SAND WITH GRAVEL,COARSE SAND AND PEA GRAVEL,IRON OXIDE CEMENTED SAND AT 430 BGS-100 GPM 435 FT BAGS, SAMPL 435 FT BGS, ORANGE YELLOW IRON OXIDED DISCHARGE
435	438	SAND WITH FINE GRAVEL,COARSE SAND AND PEA GRAVEL
438	446	SILT CLAY MIXTURE, LITTLE TO NO WATER
446	450	SAND-GRAVEL MIXTURE.COARSE SAND AND FINE GRAVEL-100 GPM
450	455	SILT CLAY MIXTURE-LITTLE TO NO WATER

MONTANA WELL LOG REPORT

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

Other Options

Return to menu
Plot this site in State Library Digital Atlas
Plot this site in Google Maps
View scanned well log (6/11/2008 2:48:26 PM)

Site Name: ANDERSON JOHN
GWIC Id: 237482

Section 1: Well Owner(s)

1) ANDERSON, JOHN (MAIL)
346 EL CAPITAN LOOP
STEVENSVILLE MT 59870 [05/25/2007]

Section 2: Location

Township	Range	Section	Quarter Sections
09N	20W	35	NE¼ NE¼

County

RAVALLI

Geocode

Latitude	Longitude	Geomethod	Datum
46.499249	-114.069274	TRS-SEC	NAD83

Ground Surface Altitude	Ground Surface Method	Datum	Date

Addition	Block	Lot

Section 3: Proposed Use of Water

DOMESTIC (1)

Section 4: Type of Work

Drilling Method: ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Friday, May 25, 2007

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	400	6

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	400	6	0.25		WELDED	STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
340	390	6	50	3/16X1	HOLTE PERFORATOR SLOTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	0	BENTONITE	Y

Section 7: Well Test Data

Total Depth: 400
Static Water Level: 107
Water Temperature:

Air Test *

300 gpm with drill stem set at 390 feet for 8 hours.
Time of recovery 0.25 hours.
Recovery water level 107 feet.
Pumping water level _ feet.

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Section 8: Remarks

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	8	SAND, GRAVEL
8	45	SAND, GRAVEL WITH WATER
45	118	CLAY, PEA GRAVEL WITH WATER
118	175	SAND, GRAVEL WITH WATER
175	310	BROWN CLAY SHALE, SAND
310	400	BROWN SHALE, PEA GRAVEL, SAND

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name: RANDAL KOTECKI
Company: JEROMES DRILLING CO
License No: WWC-600
Date Completed: 5/25/2007

ATA.2.c Forms 633 (see Excel files)

Well 5

Well 6

Well 7

Well 8

ATA.2.d Description of Testing Methods and Data Quality

Well 5

Well 6

Well 7

Well 8

ATA.2.d Description of Testing Methods and Data Quality

Town of Stevensville

Well 1 Change Application, Unperfected Permit 76H 89376 00

Proposed Additional Points of Diversion (POD): Wells 5, 6, 7, 8

Well 5 (GWIC 244440)

AMEC (2009) documents the testing methods, analyzed the test data, and estimated aquifer transmissivity (T). See ATA.3 for a summary of the estimated aquifer parameters. The data are adequate to estimate aquifer parameters.

Well 6 (GWIC 272191)

Tetra Tech (2013) and DNRC (2014) summarize the testing methods, analyzed the test data, and independently estimated aquifer T and storativity (S). See ATA.3 for a summary of the estimated aquifer parameters. The data are adequate to estimate aquifer parameters.

Well 7 (GWIC 272196)

Tetra Tech (2013) and DNRC (2014) summarize the testing methods, analyzed the test data, and independently estimated aquifer T and storativity (S). See ATA.3 for a summary of the estimated aquifer parameters. The data are adequate to estimate aquifer parameters.

Well 8 (GWIC 272197)

Tetra Tech (2013) and DNRC (2014) summarize the testing methods, analyzed the test data, and independently estimated aquifer T and storativity (S). See ATA.3 for a summary of the estimated aquifer parameters. The data are adequate to estimate aquifer parameters.

References

AMEC, 2009. Hydrogeologic Assessment Report and Criteria Addendum Evaluation in Support of Application for Beneficial Use Permit. Prepared for: Town of Stevensville, Montana. March. 76H 30043133 File.

DNRC, 2014. Aquifer Test Report. Application 76H 30070414. Water Management Bureau. February 2.

Tetra Tech, 2013. RE: Aquifer Testing for Stevensville Public Water Supply, Ravalli County, Montana. Prepared for Donny Ramer, Professional Consultants, Inc. May 9. (In 76H 30070414 application file)

ATA.3 Narrative Responses

Well 5

Well 6

Well 7

Well 8

ATA.3 Narrative Responses

Town of Stevensville

Well 1 Change Application, Unperfected Permit 76H 89376 00

Proposed Additional Points of Diversion (POD): Wells 5, 6, 7, 8

Well 5 (GWIC 244440)

AMEC (2009) analyzed the test data and estimated an aquifer transmissivity (T) of 2800 feet^2/day.

ATA.3.a.

Pumping rate departed from average by more than +/- 5%. The discharge valve was completely open at the beginning of the test. Pumping rate decreased as drawdown increased. The maximum, minimum, and time-weighted average pumping rates were approximately 1230, 1052, and 1105 gpm, respectively.

AMEC (2009) states, "Variations in flow rate were taken into account during the curve-matching analyses of drawdown data."

ATA.3.g.

Background water level monitoring in the production well exceeded the minimum standard. The duration of background water level monitoring in OBS WELL 1 was approximately 1 day, rather than the minimum standard 2 days. No background water level monitoring occurred for OBS WELL 2.

AMEC (2009) states, "Drawdown data collected during aquifer testing were not trend-corrected because background water-level trends were relatively minor when compared to drawdown responses."

ATA.3.h.

Pumping well water levels:

- Drawdown and recovery period reporting intervals are more frequent than required.

OBS WELL 1 water levels:

- Drawdown period reporting intervals are more frequent than required.
- No recovery monitoring.

OB WELL 2 water levels:

- Drawdown and recovery period reporting intervals are more frequent than required.

Well 6 (GWIC 272191)

Tetra Tech (2013) analyzed the test data and estimated aquifer T and storativity (S) of 2619-3938 feet^2/day and 4.4E-6, respectively. DNRC (2014) estimated aquifer T and S of 4080 feet^2/day and 2.7E-6, respectively.

ATA.3.a.

Pumping rate departed from average by more than +/- 5%. Maximum, minimum, and time-weighted average pumping rates were approximately 1140, 994, and 1010 gpm, respectively.

ATA.3.g.
Background water level monitoring in OBS WELL 1 met the standard and showed no major trend in water level change. No background water level monitoring occurred for the production well.

ATA.3.h.
Production well drawdown and recovery monitoring summary:

- Drawdown water level reporting occurred according to the schedule on Form 633, except for missing data points at 1380 and 1440 minutes elapsed time.
- No recovery water level monitoring.

Observation well drawdown and recovery monitoring summary:

- Drawdown water level reporting excluded early-time data; the first water level data point is 240 minutes elapsed time. From 720 to 4320 minutes elapsed time, water level reporting occurred according to the schedule on Form 633.
- Recovery water level reporting occurred according to the schedule on Form 633.

Well 7 (GWIC 272196)
Tetra Tech (2013) analyzed the test data and estimated aquifer T and S of 2689-3209 feet^2/day and 6.5E-5 – 7.5E-5, respectively. DNRC (2014) estimated aquifer T and S of 2870 feet^2/day and 1.2E-4, respectively.

ATA.3.a.
Pumping rate departed from average by more than +/- 5%. Maximum, minimum, and time-weighted average pumping rates were approximately 1193, 738, and 787 gpm, respectively. The Information tab of the original 2013 Form 633 stated an average pumping rate of 807 gpm.

ATA.3.g.
Background water level monitoring in OBS WELL 1 met the standard and showed no major trend in water level change. No background water level monitoring occurred for the production well nor OBS WELL 2.

ATA.3.h.
Drawdown and recovery period water level reporting intervals are more frequent than required.

Well 8 (GWIC 272197)
Tetra Tech (2013) analyzed the test data and estimated aquifer T of 1624 feet^2/day. Tetra Tech's hydrogeologist (William Craig) interpreted the estimated T values from the observation well response data as erroneously high and explained his rationale in the memo. Using the observation well response data, DNRC (2014) estimated aquifer T and S of 6050 feet^2/day and 1E-3, respectively.

ATA.3.b.
The average Well 8 pumping rate was 325 gpm. The authorized Well 1 pumping rate under 76H 89376 00 is 500 gpm. A change application to add Well 8 as a point of diversion may limit the Well 8 pumping rate to 325 gpm or the maximum rate that the well can produce.

ATA.3.g.
The duration of background water level monitoring for the production well and OBS WELL 1 was approximately 1 day, rather than the minimum standard 2 days. No background water level monitoring occurred for OBS WELL 2 or 3.

DNRC (2014) observed a slight increasing trend in the background data but determined that the trend was not significant enough to affect the aquifer test analysis.

ATA.3.h.
Drawdown and recovery period water level reporting intervals are more frequent than required, except for OBS WELL 2 drawdown data, which did not start until 90 minutes elapsed time.

References

AMEC, 2009. Hydrogeologic Assessment Report and Criteria Addendum Evaluation in Support of Application for Beneficial Use Permit. Prepared for: Town of Stevensville, Montana. March. (In 76H 30043133 permit file)

DNRC, 2014. Aquifer Test Report. Application 76H 30070414. Water Management Bureau. February 2.

Tetra Tech, 2013. RE: Aquifer Testing for Stevensville Public Water Supply, Ravalli County, Montana. Prepared for Donny Ramer, Professional Consultants, Inc. May 9. (In 76H 30070414 application file)