

THE MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION

GOVERNOR GREG GIANFORTE



DNRC DIRECTOR AMANDA KASTER

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

04/24/2025

LAKESIDE COUNTY WATER & SEWER DISTRICT
253 BIERNEY CREEK ROAD
LAKESIDE, MT 59922

Subject: Correct and Complete Application for Beneficial Water Use Permit No. 76LJ 30165067

Dear Applicant,

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

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

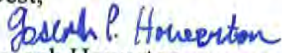
Following issuance of the Draft Preliminary Determination, you (Applicant) will have 15 business days to request an extension of time to submit additional information, if desired pursuant to §85-2-307(3)(a), MCA.

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

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

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

Best,


Joseph Howerton

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

CC: Brad Bennett
102 Cooperative Way, Suite 100, Kalispell, MT 59901
bbennett@waterenvtech.com



DNRC.MT.GOV

March 31, 2025

Jim Ferch
DNRC Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901

Re: Form 600 Application for Beneficial Water Use Permit for Lakeside County Water & Sewer District

Dear Jim,

The purpose of this correspondence is to submit the Application for Beneficial Water Use Permit (Form 600) on behalf of Lakeside County Water & Sewer District for a new water right to serve a planned development south of the Lakeside townsite. Additionally, supporting documentation is being provided as necessary to supplement the Form 600 being submitted. A signed, fully completed Form 600 is provided as **Attachment A**.

The following items are provided in support of the Form 600.

PREAPPLICATION AND TECHNICAL ANALYSIS INFORMATION

4.1 Submit the Technical Analysis you would like the Department to use to conduct the criteria assessment.

The Applicant requests that the Technical Analysis Report, completed by DNRC for Beneficial Water Use Permit Pre-Application No. 76LJ 30165067, be used to conduct criteria assessment. A complete copy of the Technical Analysis Report, dated January 31, 2025 is provided as **Attachment B**.

PURPOSE AND DIVERSION INFORMATION

19. Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance facilities and or routes, all proposed places of storage, and places of use for all overlapping water rights.

A preliminary site layout, meeting the requirements outlined above, is provided as **Attachment C**. Please note that there are no overlapping water rights.

20. Fill out the table below. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

The following calculations document the water use requested for the various purposes.

Multiple Domestic

359 Units x 250 gallons per day/unit = 89,750 gallons per day

89,750 gallons per day x 365 days per year = 32,758,750 gallons per year

32,758,750 gallons per year = 100.53 acre-feet per year

Commercial

Various commercial uses include a real estate office, restaurant, fitness/wellness facility, spa, golf club house, comfort stations, maintenance facilities, bar, comfort stations located at the various amenities = 20,384 gallons per day

20,384 gallons per day x 365 days per year = 7,440,160 gallons per year

7,440,160 gallons per year = 22.83 acre-feet per year

Lawn and Garden Irrigation

Lawn and garden irrigation is anticipated to average 5,000 square feet (0.115 acres) per lot with an additional 10.0 acres of common area being irrigated for a total irrigated area of 51.21 acres. Irrigation water demands were determined using the U.S. Department of Agriculture's (USDA) Irrigation Water Requirements (IWR) software (Natural Resources and Conservation Services Version 1.0, March 1, 2003). The irrigation standard for sprinkler irrigation of pasture grass was corrected for turf grass per DNRC Guidelines entitled "DNRC Consumptive Use Methodology – Turf Grass" (March 23, 2010). The results of the IWR analysis indicate the net irrigation requirement in a dry year is 20.68 inches in the Polson area. Sprinkler irrigation in Climate Zone III is considered to be 70 percent efficient (ARM 36.12.115(1)(e)). Therefore, the irrigation requirement is 29.54 inches (2.46 ac-ft) per acre per annum. A copy of the IWR calculations displaying the monthly irrigation water requirements is contained in **Attachment D**. As indicated above, the proposed irrigated area is 51.21 acres. Therefore, the lawn and garden irrigation demand is 126.06 acre-feet per year.

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

Below is a table detailing the total number of geocodes for the places of use across the site:

Place of Use Geocodes	
-07-3705-30-3-01-01-0000	-07-3705-30-4-01-20-0000
-07-3704-25-3-01-01-0000	-07-3705-30-4-01-10-0000
-07-3704-25-1-01-01-0000	-07-3705-30-4-01-01-0000
-07-3704-25-1-01-05-0000	-07-3705-30-2-01-01-0000
-07-3705-30-1-01-10-0000	-07-3705-30-1-01-01-0000
-07-3705-29-2-01-10-0000	-07-3705-29-3-01-20-0000
-07-3705-29-2-01-30-0000	-07-3705-29-3-01-10-0000
-07-3705-29-3-01-40-0000	-07-3705-29-3-01-01-0000
-07-3705-19-3-01-30-0000	-07-3705-19-3-01-40-0000
-07-3705-19-3-02-30-0000	

38. Provide a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

A preliminary utility layout of the Lake View subdivision is included as **Attachment C**.

39. 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.

A preliminary hydraulic assessment has been completed for each of the two proposed PODs proposed to serve the Lake View Subdivision. Pump specifications are provided in **Attachment E**, in combination with the hydraulic assessment. Final pump selection must be approved by the



Montana Department of Environmental Quality (DEQ) before being constructed and the water system being operational.

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

Well logs for PWS Well #1 and #2 have been included in **Attachment F**.

Form 600 Attachments:

The following attachments are provided in support of this pre-application:

Attachment A – Form 600 - Signed

Attachment B – DNRC Technical Analysis Report Application No. 76LJ 30165067

Attachment C – Preliminary Site Layout

Attachment D – IWR Calculations

Attachment E – Preliminary Hydraulic Calculations and Pump Specifications

Attachment F – Well Logs (GWIC 237308 & 237309)

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at (406) 309-6083 or bbennett@waterenvtech.com.

Sincerely,

A handwritten signature in blue ink, appearing to read 'B. Bennett'.

Brad Bennett, PG

Senior Hydrogeologist, Water & Environmental Technologies

Attachment A

Form 600 - Signed



APPLICATION FOR
BENEFICIAL WATER USE
PERMIT

§ 85-2-302

Form No. 600 (04/2024)

For Department Use Only

RECEIVED
DNRC Water Resources

APR 03 2025

Kalispell Unit

FILING FEE

**\$2900/\$1600 – Inside a Basin Closure Area, Controlled
Groundwater Area or**

Compact Closure; without/with filing fee reduction.

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

Application # _____ Basin _____
Priority Date 4/3/25 Time 9:47 AM/PM
Rec'd By LP
Fee Rec'd \$ 700.00 Check # 1456
Deposit Receipt # _____
Payor Water & Environmental Tech
Refund \$ _____ Date _____

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)).

Applicant Information: Add more as necessary.

Applicant Name Lakeside County Water & Sewer District

Mailing Address 253 Bierney Creek Road City Lakeside State MT Zip 59922

Phone Numbers: Home _____ Work 406-844-3881 Cell _____

Email Address rodneyolson@lcwsd.net

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 Water & Environmental Technologies - Brad Bennett

Mailing Address 102 Cooperative Way, Suite 100 City Kalispell State MT Zip 59901

Phone Numbers: Home _____ Work 406-309-6085 Cell _____

Email Address bbennett@waterenvtech.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.



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 checked 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. Label units in narrative responses. Responses in the form of a table may be entered into the table provided on this form or in an attachment. Responses in the form of a table that are larger than the table provided on this form should be placed in an attachment. If an attachment is used, the table must have the exact headings found on this form, and "see attachment" must be placed on this form. For tables on this form, circle correct unit at header of column when table has unit options. For tables in attachments, label all units.

PREAPPLICATION AND TECHNICAL ANALYSIS INFORMATION

1. ☒ **Y** ☐ **N** Did you have a preapplication meeting AND complete a Form 600P Permit Preapplication Meeting Form?

IF QUESTION 1 IS YES,

2. ☒ **Y** ☐ **N** Did you elect on Form 600P to have the Department conduct Technical Analysis?
3. ☐ **Y** ☒ **N** Has any element of the application changed from Form 600P or the Technical Analysis conducted as part of the preapplication process? A Technical Analysis Addendum (Form 600-TAA) is required if changes have occurred.
4. Submit the following items:
- 4.1. ☒ **S** Technical Analysis you would like the Department to use to conduct criteria assessment.
- 4.2. ☐ **S** ☒ **NA** Scientific Credibility Review, if applicable.
- 4.3. ☐ **S** ☒ **NA** Technical Analysis Addendum (Form 600-TAA), if applicable, per question 3.

IF QUESTION 1 IS NO,

5. ☐ **S** Submit the Technical Analysis Addendum (Form 600-TAA).
6. ☐ **Y** ☐ **N** Do you elect to have the Department conduct Technical Analysis?
- 6.1. ☐ **S** If no, submit all the required Technical Analyses. See the Technical Analysis Guide for more information.

APPLICATION ADDENDA AND REVIEW

7. ☐ **S** ☒ **NA** If your application is for groundwater and one or more of your points of diversion are in a Basin Closure Area, then submit the Basin Closure Area Addendum (Form 600-BCA).
8. ☐ **S** ☒ **NA** If your application is for groundwater and one or more of your points of diversion are in a Basin Closure Area, then you must comply with the requirements of §85-2-360. If you elected to conduct Technical Analysis, you must submit the Hydrogeologic Report Addendum (Form 600-HRA). If you did not have a preapplication meeting AND complete a Form 600P Permit Preapplication Meeting Form, you must submit the Hydrogeologic Report Addendum (Form 600-HRA). If you had a preapplication



meeting, completed a Form 600P Permit Preapplication Meeting Form, and elected DNRC to conduct Technical Analysis, you do not need to submit Form 600-HRA because the Department's Technical Analysis, which you must submit along with this application, meets the requirements of §85-2-360.

9. ☐ S ☒ NA If one or more of your points of diversion are in a Controlled Groundwater Area, then submit the Controlled Groundwater Area Addendum (Form 600-CGWA) and all its required attachments.
10. ☐ S ☒ NA If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, then submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B).
11. ☐ S ☒ NA If the project involves out-of-state water use, then submit the Out-of-State Use Addendum (Form 600/606-OSA).
12. ☐ S ☒ NA If you require mitigation water to meet the criteria of issuance, then submit a Mitigation Purpose Addendum (Form 600/606-MIT).
13. ☐ S ☒ NA If the proposed purposes include marketing or selling water, then submit the Water Marketing Purpose Addendum (Form 600/606-WMA).
14. ☐ S ☒ NA If the project is in designated sage grouse habitat, then submit a review letter from the Montana Sage Grouse Habitat Conservation Program (<https://sagegrouse.mt.gov>).
15. ☐ Y ☐ N ☒ NA You must provide a written notice of the application to each owner of an appropriation right sharing the point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway). Have you sent this notice to all applicable parties? Your application cannot be deemed correct and complete until you have sent this notice pursuant to §85-2-302(4)(c), MCA.

PURPOSE AND DIVERSION INFORMATION

16. ☐ Y ☒ N Is the proposed use temporary?

16.1. If yes, when will the appropriation cease? _____

17. Is the proposed source surface water or groundwater? Groundwater

18. What is the source name? Well(s) - Groundwater from Belt Supergroup

19. ☒ S Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance facilities and or routes, all proposed places of storage, and places of use for all overlapping water rights.



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

Purpose	Means of Diversion	Acres Irrigated (if appl.)	Period of Diversion (Month/Day - Month/Day)	Period of Use (Month/Day - Month/Day)	Flow Rate (GPM or CFS)	Volume (Acre-Feet)
Multiple Domestic	Wells (2)	n/a	01/01-12/31	01/01-12/31	430	100.53
Commercial	Wells (2)	n/a	01/01-12/31	01/01-12/31	430	22.83
Lawn & Garden	Wells (2)	51.21	04/18-10/13	04/18-10/13	430	126.06
Total Flow Rate and Volume Required					430	249.42

POINT(S) OF DIVERSION

21. Describe the proposed location of the point(s) diversion to the nearest ¼ ¼ ¼ Section. Label each POD with the POD ID number used for the project map (question 19).

POD #	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot
1	SE	SW	SE	30	26N	20W	Flathead					
2	NE	SW	SE	30	26N	20W	Flathead					

PLACE OF USE

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

- Refer to attached letter.	-
-	-
-	-
-	-

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

Acres	Gov. Lot	Block	¼	¼	¼	Sec.	Twp.	Rge.	County
15.07						25	26N	21W	Flathead
18.25						30	26N	20W	Flathead
16.79						29	26N	20W	Flathead
1.10					S2	19	26N	20W	Flathead

SUPPLEMENTAL AND OVERLAPPING WATER RIGHTS

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

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

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

Water Right #	Average Period of Diversion	Average Period of Use	Flow Rate	Volume Contributed

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

26.1. If yes, explain.

OWNERSHIP AND POSSESSORY INTEREST

27. ☐ Y ☒ N Does the Applicant have ownership of all proposed points of diversion and places of use?

27.1. If no, explain.

The developer owns the property and is developing the property. However, upon completion, the water system (including the wells) will be deeded to Lakeside County Water & Sewer District (LCWSD) for ownership and operation.



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

28.1. If yes, explain.

LCWSD has agreed to take ownership of the water system and be responsible for operation of the water system upon construction and permitting of the water system.

LCWSD will serve water to the ultimate user (lot owner) who will consent to the use of water at the owners place of use.

ADVERSE EFFECT

29. ☒ Y ☐ N Do you have evidence that water is physically and/or legally available in the amount required for the proposed flow rate and volume of your project?

29.1. If yes, explain.

The DNRC Groundwater Permit Technical Analysis Report for Application No. 76LJ 30165067 identified an aquifer flux of 4,726 acre-feet per year through the zone of influence. A total of 500 water rights were identified within the zone of influence. These 500 water rights appropriate far less than the total available water. The proposed appropriation of 249.42 acre-feet is approximately 5-percent of the natural flux estimated within the zone of influence.

30. ☒ Y ☐ N If the legal availability criteria assessment finds that water is not legally available throughout the entire proposed period of diversion, do you have a contingency plan to address this?

30.1. If yes, explain.

The application can be amended as necessary to reduce the volume of water requested for lawn and garden irrigation. If necessary, mitigation will be evaluated to offset impacts to existing water right holders.

31. ☐ Y ☒ N Are there any factors that would limit your ability to turn off your appropriation in response to a call?

31.1. If yes, explain.



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

The volume of water diverted and utilized can be limited through restrictions placed on the community. Diversion of water from the wells can be ceased entirely in the event that a valid call is made.

33. ☐ Y ☒ N Are you aware of any calls that have been made on the source of supply or depleted surface water source?

33.1. If yes, explain.

34. ☐ Y ☒ N Does a water commissioner distribute water or oversee water distribution on your proposed source or any identified depleted surface water sources?

34.1. If yes, list the source(s).

35. Describe your plan to ensure existing water rights will be satisfied during times of water shortage.

LCWSD recognizes that they are a junior appropriator to several existing water rights. They further acknowledge that irrigation can be reduced, or curtailed, during times of water shortage so that the water rights of a senior appropriator can be satisfied. During times of extreme drought, the LCWSD proposes to implement the following steps: 1) reduce irrigation by 50-percent, 2) cease irrigation, 3) initiate potable water rationing by 50-percent, 4) the well pumps can be turned off if a senior water right holder makes a valid call for water. These steps will be implemented upon written notification to LCWSD that a call has been made by a senior appropriator which has demonstrated they have been adversely affected by the water use associated with this application.

36. ☐ Y ☒ N Do other water rights share any of the proposed points of diversion?

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



37. ☐ Y ☒ N Do other water rights share any conveyance ditch associated with the proposed project? See the list of water rights that share the conveyance ditches in either the Preapplication Meeting Form (Form 600P) or the Technical Analysis Addendum (Form 600-TAA).

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

ADEQUATE MEANS OF DIVERSION AND OPERATION

38. ☒ S Provide a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

39. 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.

Two PWS wells were drilled and constructed for development of the subject property in 2007. Both wells were constructed in compliance with the specifications required by the Montana Board of Water Well Contractors, the Department of Natural Resources and Conservation (DNRC), and the DEQ for a PWS system. The wells are completed in the bedrock aquifer. A 72-hour aquifer pumping test at a pumping rate of 270 gpm was completed on PWS Well #1 (GWIC ID 237308) and a 24-hour pumping test was completed on PWS Well #2 (GWIC ID 237309) at a rate of 160 gpm. Both wells are constructed with 8-inch well liners. PWS Well #1 is designed to pump at up to 270 gpm and PWS Well #2 is designed to pump at up to 160 gpm. A preliminary hydraulic assessment and submersible pump specifications are provided in Attachment E. Well logs for PWS Well #1 and #2 have been included in Attachment F.

40. ☒ Y ☐ N Is the diversion capable of providing the full amount of water requested through the period of diversion?

40.1. If no, explain.



41. Describe the size and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include, where applicable: ditch capacity and/or pipeline size and configuration.

The proposed Lake View Subdivision water supply system shall include two wells, booster pump station, two concrete storage tanks (approximately 340,000 gallons), more than 25,000 lineal feet of 8", 10" and 12" water mains, appurtenant valving, hydrants and controls. Each lot shall be provided with a HDPE, SDR 7 water service line, curb stop and meter box. The system is being designed by licensed professional engineers from Kimley-Horn and shall be approved by DEQ prior to installation. A copy of the preliminary site layout showing the conceptual water system is provided as Attachment C. The well pumps are incapable of providing the full peak instantaneous demand so a booster pump station will be required.

42. Describe any losses related to the proposed conveyance.

The water system shall be newly constructed and pressure tested prior to operations. All conveyance shall occur via buried water mains and concrete storage tank. As such, no conveyance losses are anticipated.

43. ☒ Y ☐ N ☐ NA Is the proposed conveyance infrastructure capable of providing the required flow and volume, plus any conveyance losses?

43.1. If no, explain.

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

44.1. If yes, explain.

Utility easements shall be authorized from the developer to LCWSD upon completion of the water system, and prior to the water system ownership being transferred to LCWSD. The easements will ensure LCWSD has the ability to maintain the water system as required.

45. Describe 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, output and configuration of sprinkler heads and pipelines within the place of use.

The water system will be operated based on the demands of the users. The well pumps will be regulated based upon the water level in the on-site water storage tank. When the water level in the tank reaches a pre-set level the lead well pump will begin pumping and will continue to pump until the level in the tank reaches a different pre-set level indicating that the tank is full, and no additional water is required. If the draw from the tank continues to out-pace the supply to the tank the water level will reach a second pre-set level, which will initiate pumping of the second PWS well. In that case, both well pumps will continue to pump until the water level reaches the pre-set level indicating the tank is full and the pumps will be shut off. Approximately 340,000 gallons of stored water is anticipated. Booster pumps will be utilized to ensure adequate water during periods of peak demand.



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

46.1. If yes, explain the way water will be discharged and the disposal method.

No water discharge is proposed as part of this project. All sanitary waste shall be conveyed to the LCWSD wastewater treatment plant. Currently the plant utilizes treatment and land application to handle wastewater. However, LCWSD is in the process of updating their wastewater treatment plant and may be able to discharge a portion of the wastewater generated through rapid infiltration basins.

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

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

IF YES,

47.1. ☒ Y ☐ N Have all wells already been drilled?

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

PWS Well #1 - GWIC 237308, Marvin Sudan, Sudan Drilling, WWC-450

PWS Well #2 - GWIC 237309, Marvin Sudan, Sudan Drilling, WWC-450

Well logs for PWS Well #1 and #2 have been included in Attachment F.

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

47.4. ☐ S ☒ NA Submit any additional well logs for wells drilled after submittal of Form 600P.

BENEFICIAL USE

48. Why is the requested flow rate and volume the amount needed for the purpose(s)?

The flow rate requested will allow LCWSD to manage the volume of water stored in their water tanks. The maximum day demand of 273 gpm is the minimum source capacity allowable by DEQ; however, a flow rate of 430 gpm will allow LCWSD the ability to maintain or replenish water to their on-site storage tanks more readily. The volume requested for multiple domestic purposes is based on the DNRC standard of 250 GPD per unit (359 units x 250 gpd = 100.53 AF/year). Commercial use was calculated based on the average day demand of 20,384 GPD for an annual volume of 22.83 acre-feet. Lawn and garden irrigation was calculated based on an average lawn and garden size of 5,000 square feet per unit (41.21 acres) plus 10.0 acres of common area for a total lawn and garden irrigation area of 51.21 acres. Irrigation Water Requirements were calculated to be 20.68 in/year (Polson Weather Station). Assuming an application efficiency of 70-percent, a total of 29.54 in/year of irrigation were applied lawn and garden irrigation for an annual volume of 126.06 AF/year.



- 49.2.** If no Department standard exists, or if proposed beneficial use falls outside of Department standards, explain how the use is reasonable for the purpose.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper appears to be a standard notebook page.

- 51.1.2. ☐ Y ☐ N If no, have you researched or consulted with DEQ regarding their requirements?

LCWSD requests 17 years to perfect this permit application, which will allow time for the development to be designed, permitted, constructed, and built. Assuming an average of 30 units are developed, 12 years will be required for each unit to be constructed. Five additional years are requested to fully establish landscaping and fully document water use.

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. 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.

Applicant Signature  Date: 3-19-2025

Printed Name MARC LIECHTI

Title LCWSD PRESIDENT

Applicant Signature _____ Date: _____

Printed Name _____

Title _____

Applicant Signature _____ Date: _____

Printed Name _____

Title _____



Attachment B

DNRC Technical Analysis Report
Application No. 76LJ 301625067



January 31, 2025

Rodney Olson
Lakeside County Water and Sewer District
253 Bierney Creek Road
Lakeside, MT 59922

Subject: Completed Technical Analysis for Beneficial Water Use Permit PreApplication No. 76LJ 30165067

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30165067 based on the information provided in your Preapplication Meeting Form submitted to the Department on 12/23/2024. The technical analyses can be found in the attached report. Please note this Groundwater Technical Analyses Report is a two-part publication, comprised of a Part A completed by Evan Norman and a Part B completed by Kristal Kiel.

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

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



You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analyses and Preapplication Meeting Form. If the Application Form is not submitted to the Kalispell Regional Office by July 30, 2025, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any elements described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

If you have any questions, please contact me at 406.752.2735 or Kristal.Kiel@mt.gov.

Best,



Kristal Kiel
Water Resources Specialist
Kalispell Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901

CC:

Brad Bennett
Senior Hydrologist
Water & Environmental Technologies
102 Cooperative Way, Suite 100
Kalispell, MT 59901





Groundwater Permit Technical Analyses Report - Part A

Department of Natural Resources and Conservation (DNRC)

Water Resources Division

Evan Norman, Groundwater Hydrologist, Water Sciences Bureau (WSB)

Applicant No.	76LJ 30165067	Point of Diversion Legal Land Description	Section 30, Township 26 North, Range 20 West, Flathead County
Applicant	Lakeside County Water & Sewer District		

Overview

This report is Part A of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right application. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-311, Montana Code Annotated (MCA). For applications in closed basins, this report fulfills the requirements of MCA 85-2-361.

This Groundwater Permit Technical Analyses Report – Part A contains the following sections:

Overview	1
1.0 Executive Summary	2
2.0 Hydrogeologic Setting	3
3.0 Aquifer Test Summary	5
4.0 Aquifer Test Analysis	7
5.0 Adequacy of Diversion Analysis	14
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Appendix A: Groundwater Rights Within Area of Potential Impact	
Appendix B: Groundwater Rights Within the 1-foot Drawdown Contour	



1.0 Executive Summary

Application Details

The Applicant requests to divert water from two wells at a rate of 430.0 gallons per minute (gpm) and volume of 249.4 acre-ft (AF) per year for multiple domestic, commercial and lawn and garden purposes. The requested lawn and garden irrigated area is 51.2 acres. The purposes and associated periods of diversion, periods of use, and volumes are shown in **Table 1**.

Table 1: Application No. 76LJ 30165067 project details.

Purpose	Period of Diversion	Period of Use	Diverted Volume (AF)
Multiple Domestic	Year-round	Year-round	100.5
Commercial	Year-round	Year-round	22.8
Lawn & Garden	Year-round	Seasonal (4/18-10/13)	126.1
Total			249.4

Approved Variances from ARM 36.12.121

The Water Sciences Bureau (WSB) reviewed the submitted information and recommended variances from 36.12.121(3)(a) and 36.12.121(3)(g) in a letter sent to the Kalispell Regional Office, December 30, 2024.

WSB Technical Findings

Based on information submitted, the WSB estimated aquifer properties, evaluated the Production Well(s) available water column, quantified the water available in the source aquifer, and evaluated potential impacts to existing groundwater and surface water rights. These technical analyses are in support of the following criteria assessment: adequacy of diversion, physical availability, and adverse effect. A summary of WSB findings described in subsequent sections are listed below.

TECHNICAL ANALYSES FINDINGS

AQUIFER TEST ANALYSIS

Using the Moench (1984) solution and submitted aquifer test data, estimates of aquifer properties are a fracture hydraulic conductivity (K) of 40 feet (ft)/day, fracture specific storage (S_s) of 1.3×10^{-6} , matrix hydraulic conductivity (K') of 0.004 ft/day, matrix specific storage (S_s') of 2.1×10^{-4} , and wellbore skin factor (S_w) and fracture skin factor (S_f) of -2.0 and 0.46, respectively.

ADEQUACY OF DIVERSION

The proposed wells, GWIC ID 237308 and 237309 using the Moench (1984) solution, previously stated fracture and matrix aquifer properties and monthly pumping schedule to meet the requested annual volume would experience 48.1 and 239.5 ft of drawdown after the first year, leaving approximately 232.9 and 83.9 ft of available water column above the bottom of the well perforations.



**PHYSICAL
AVAILABILITY**

The model predicted the 0.01-foot drawdown contour, or zone of influence (ZOI), occurs a maximum distance of approximately 34,000 ft from the Applicant's wells after pumping at a constant rate over the requested period of diversion. The contour was truncated to fault boundaries of fractured bedrock to the west and Flathead Lake to the east. The groundwater flux through the ZOI is equal to 4,726 AF/year. There are 500 active groundwater rights completed within the ZOI and source aquifer that need to be evaluated as a legal demand ([APPENDIX A](#)).

**ADVERSE
EFFECT
(DRAWDOWN
IN EXISTING
WELLS)**

After five years, assuming the wells are pumped according to the monthly pumping schedule as shown in **Table 6**, 341 groundwater rights in the source aquifer are predicted to experience drawdown equal to or greater than one foot ([APPENDIX B](#)).

**ADVERSE
EFFECT (NET
DEPLETION
TO SURFACE
WATER)**

Flathead Lake, approximately 7,800 ft east of the proposed wells, is identified as being hydraulically connected to the source aquifer. Monthly net depletions resulting from the proposed use of groundwater are identified in **Table 2**.

Table 2: Total consumed volume and net depletion to surface water for the Production Wells.

Month	Irrigation Consumed Volume (AF)	Commercial and Multiple Domestic Consumed Volume (AF)	Total Consumed Volume (AF)	Flathead Lake Net Depletion (AF)	Flathead Lake Net Depletion (gpm)
January	0.0	10.5	10.5	18.0	131.2
February	0.0	9.5	9.5	16.2	131.2
March	0.0	10.5	10.5	18.0	131.2
April	2.1	10.1	12.2	17.4	131.2
May	10.7	10.5	21.1	18.0	131.2
June	16.8	10.1	27.0	17.4	131.2
July	24.2	10.5	34.7	18.0	131.2
August	21.3	10.5	31.8	18.0	131.2
September	10.8	10.1	20.9	17.4	131.2
October	2.4	10.5	12.9	18.0	131.2
November	0.0	10.1	10.1	17.4	131.2
December	0.0	10.5	10.5	18.0	131.2
Total	88.3	123.3	211.6	211.6	

2.0 Hydrogeologic Setting

As identified in **Figure 1**, the Production Wells, GWIC ID 237308 and 237309 are completed in the Helena Formation of the Belt Supergroup system (400BELT) and are approximately 600 ft away from each other. The wells, GWIC ID 237308 and 237309 are perforated between 602-620 ft and 668-686 ft below ground surface (bgs) with static water levels (swl) of 340.96 and 364.60



ft below top of casing (btc), respectively. The surficial geology in the area is the Helena Formation of the Piegan Group of the Precambrian Belt Supergroup mapped by Harrison et al. (2000) and Vuke et al. (2007). The Helena Formation near the project location, composed of limestone and dolomite, includes a series of north-northwest trending normal faults and a fracture network which provides conduits for groundwater flow.

In the Flathead Lake area, there is sufficient fracture permeability in the Belt Supergroup rocks to yield water to wells (LaFave et. al., 2004). However, the permeability is variable due to irregular fracture distribution and differing capabilities of the fractures to transmit water. This results in large variations in well yield from place to place. The aquifer is primarily recharged from snowmelt and precipitation infiltration in areas where the bedrock is exposed and leakage from overlying or adjacent deposits (Land and Water Consulting Inc., 2003). A series of normal faults near the project location generally strike northwest-southeast and dip between 13 and 28 degrees east (Harrison et al., 1986; Harrison et al., 2000; Raines and Johnson, 1996). Based on information in Provisional Permit No. 76LJ 30062687, the potentiometric surface of the bedrock matrix from west to east is approximately 3,700 ft, 3,200 ft, and 3000 ft amsl over approximately 14,000 ft.

Glacial till and alluvial deposits are mapped across the base of the Salish Mountains on the western side of Flathead Lake where outcrops of Belt Supergroup Rock are absent (Smith, 2004b). North of the project near the Town of Lakeside, the glacial till may act as a confining layer between the overlying alluvium and underlying Belt Supergroup (Smith, 2004b). In general, the regional recharge of water that propagates downward vertically to the bedrock aquifer discharges to the Flathead Lake through fractures following topographic relief (LaFave, 2004).

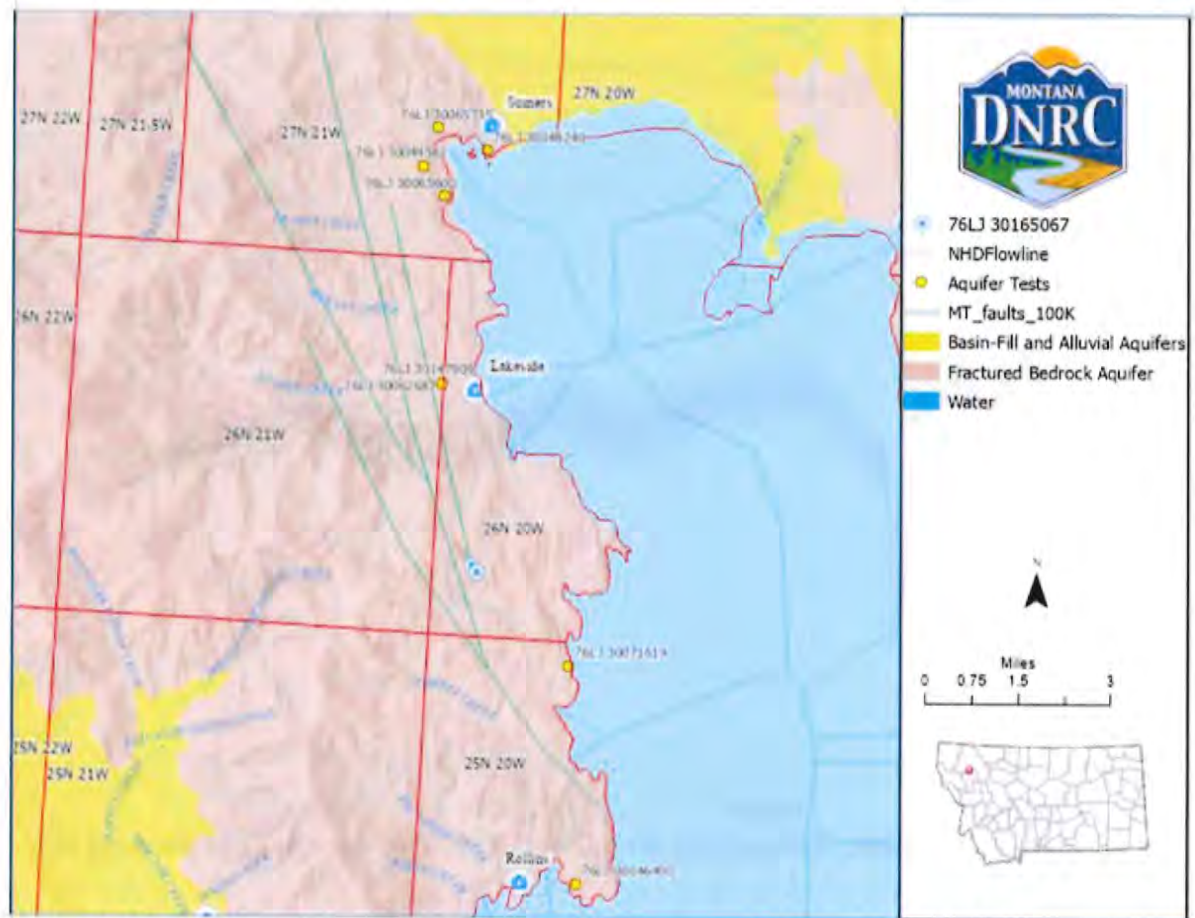


Figure 1: Map of the Applicant's aquifer test location and other nearby aquifer tests.

3.0 Aquifer Test Summary

Field Methods and Equipment

A 72-hour aquifer test was conducted on the Production Well, GWIC ID 237308. Water levels during the aquifer test were collected using In-Situ Level Troll Model 700 dataloggers in the Production well and Observation Well (GWIC ID 237309). GWIC ID 237309 is approximately 600 ft north of the Production Well and completed in the same source aquifer as the Production Well. The discharge was measured with a 3" totalizing and rate indicator inline flow meter.

Background Data

Background groundwater levels were monitored in the Production Well for 84-hrs starting on July 13, 2007, and ending on July 17, 2007. As identified in **Figure 2**, background water levels decreased by approximately 0.6 ft starting on July 14, 2007, at 8:45 a.m. before returning to near starting conditions. At the end of the 84-hr background monitoring period, the static water level was approximately 0.15 ft lower than the starting level. The observed gradual decline in water levels did not affect the analysis of the aquifer test data.

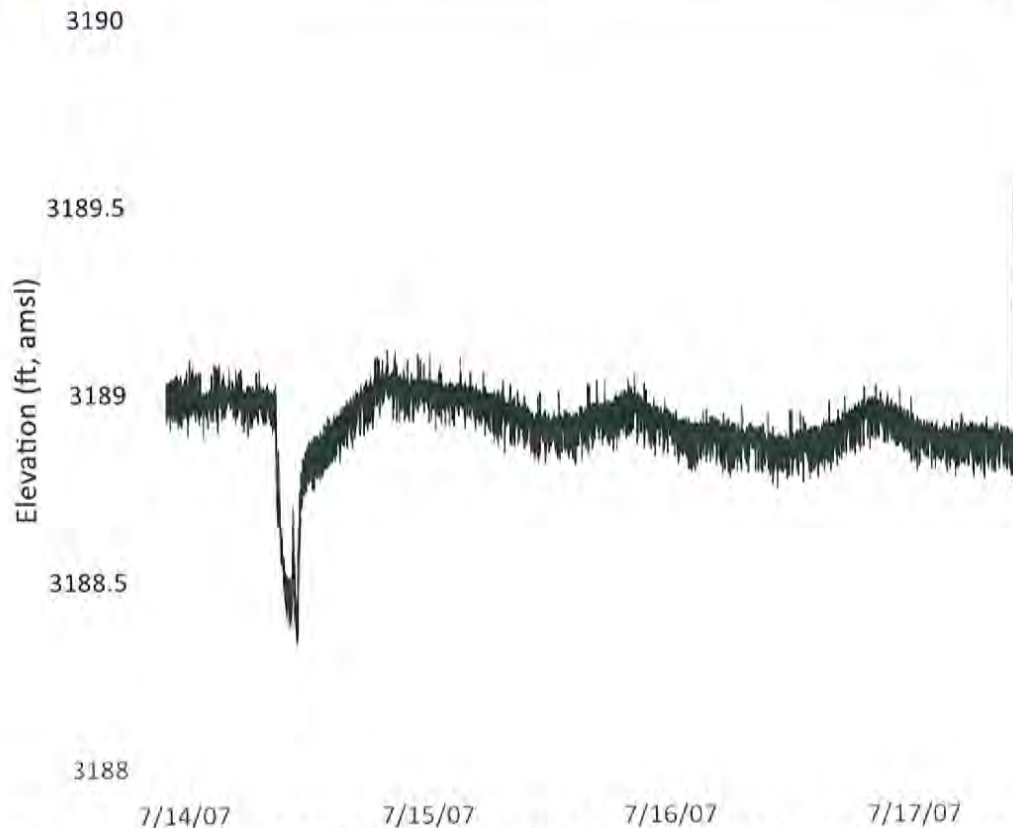


Figure 2: Background data in Production Well GWIC ID 237308 prior to 72-hr pumping test.

Drawdown Data

The 72-hour aquifer test started on July 18, 2007, at 7:00 am. on the Production Well and is considered ($t = 0$) for the computation of drawdown. The test maintained a constant discharge rate of 270 gpm. The maximum drawdown in the Production Well was 24.40 ft (**Figure 3**) below the static water level (swl) of 340.96 ft below top of casing (btc) leaving 256.64 ft of available water column above the bottom of the well perforations.

The Observation Well, GWIC ID 237309, experienced a maximum drawdown of 5.06 ft below the swl of 365.40 ft btc leaving approximately 317.54 ft of available water column above the bottom of the well perforations.

Recovery Data

Recovery groundwater level data were monitored for 49-hours in the Production and Observation wells July 21, 2007, through July 23, 2007. At the end of the recovery period the Production and Observation wells were 3.26 ft and 2.22 ft from pre-test water levels, respectively.

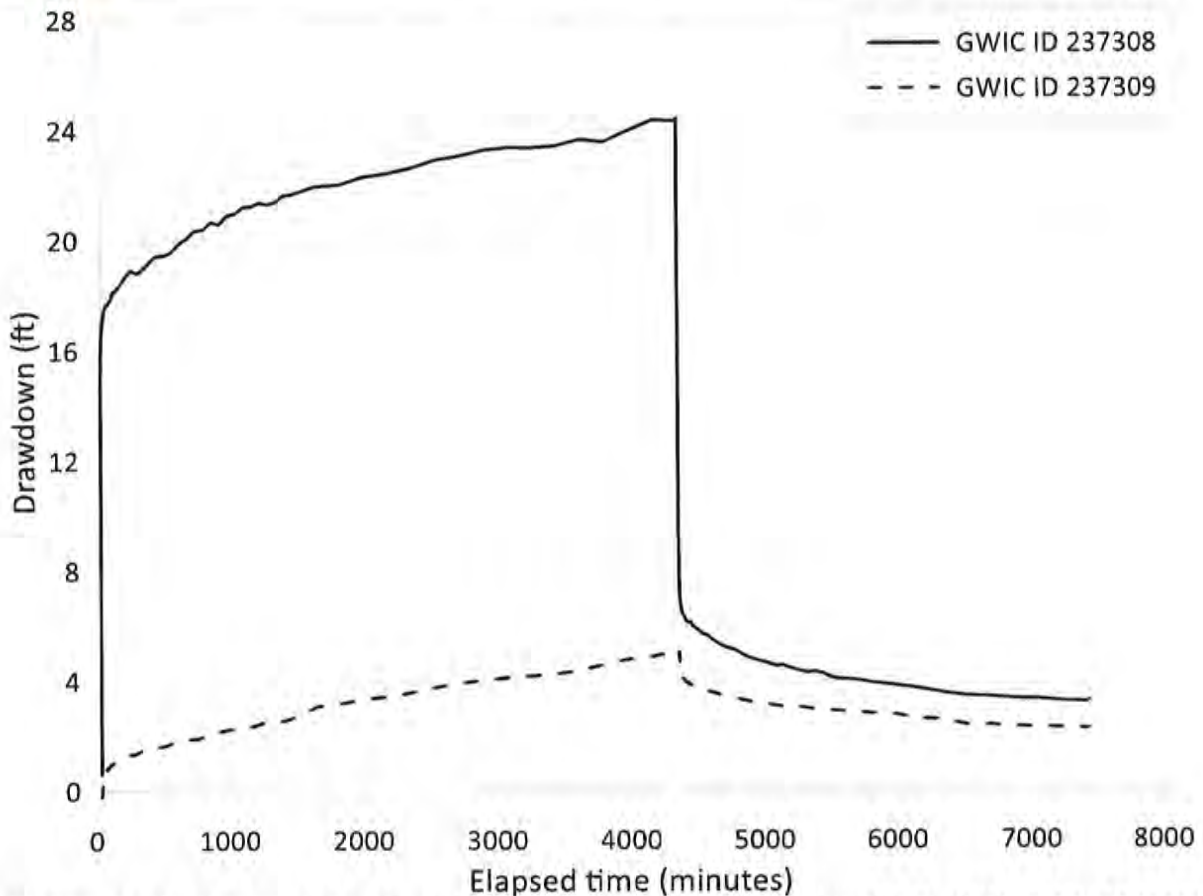


Figure 3: Production Well (GWIC ID 237308) and Observation Well (GWIC ID 237309) drawdown and recovery data from 72-hour aquifer test performed July 18, 2007.

4.0 Aquifer Test Analysis

Methods

The DNRC utilized AQTESOLV® (HydroSOLVE, Inc., 2007) to analyze drawdown data from the aquifer test and obtain estimates of aquifer properties. Aquifer properties were used in forward modeling to evaluate the available water column in the well, quantity of water available in the source aquifer, and potential impacts to groundwater and surface water rights. AQTESOLV® is an analytical modeling software that uses image well theory and the principle of superposition to simulate aquifer stress tests.

Drawdown data and measured flow rates from the aquifer test, and the spatial location of each well are input into the model. Using this compilation of data, aquifer properties including Transmissivity (T) and Storativity (S) were estimated using the Cooper-Jacob (1946) solution based on a best-fit visual and statistical match between the observed and theoretical drawdown data. Using the Moench (1984) solution for fractured bedrock aquifers, the fracture hydraulic conductivity (K), fracture storativity (S), matrix hydraulic conductivity (K'), matrix storativity



(S'), wellbore skin factor (S_w) and fracture skin factor (S_f) are identified based on a best-fit visual and statistical match between the observed and theoretical drawdown data.

Analyses

Analytical groundwater solutions were matched to Observation Well drawdown data to generate estimates of aquifer properties for the source aquifer. As identified in **Figure 4** and **Figure 5** theoretical AQTESOLV® predicted derivatives (red line) were compared to the calculated derivatives from the observed drawdown (black triangles) and predicted drawdown (blue line) compared to the observed drawdown (black squares).

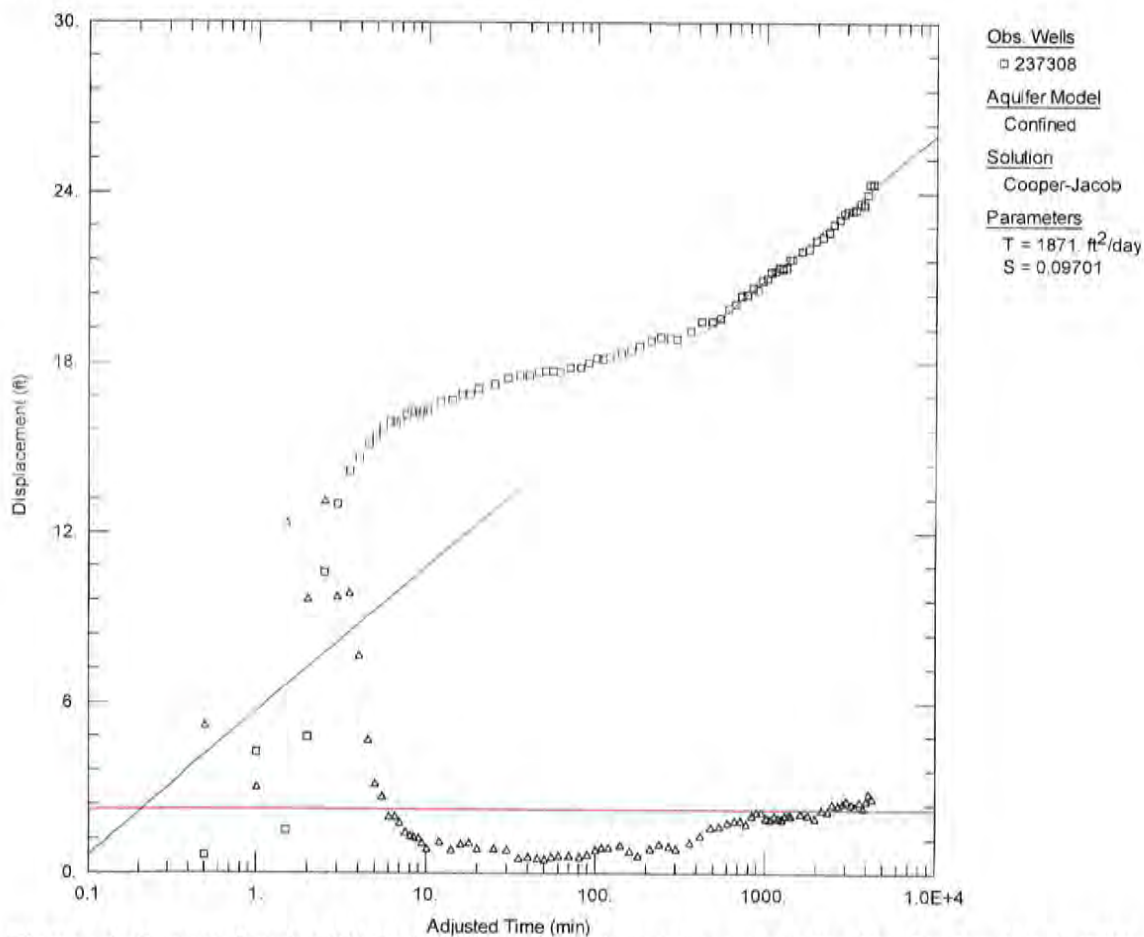


Figure 4: Cooper-Jacob (1946) drawdown and derivative curves for Production Well, GWIC ID 237308.

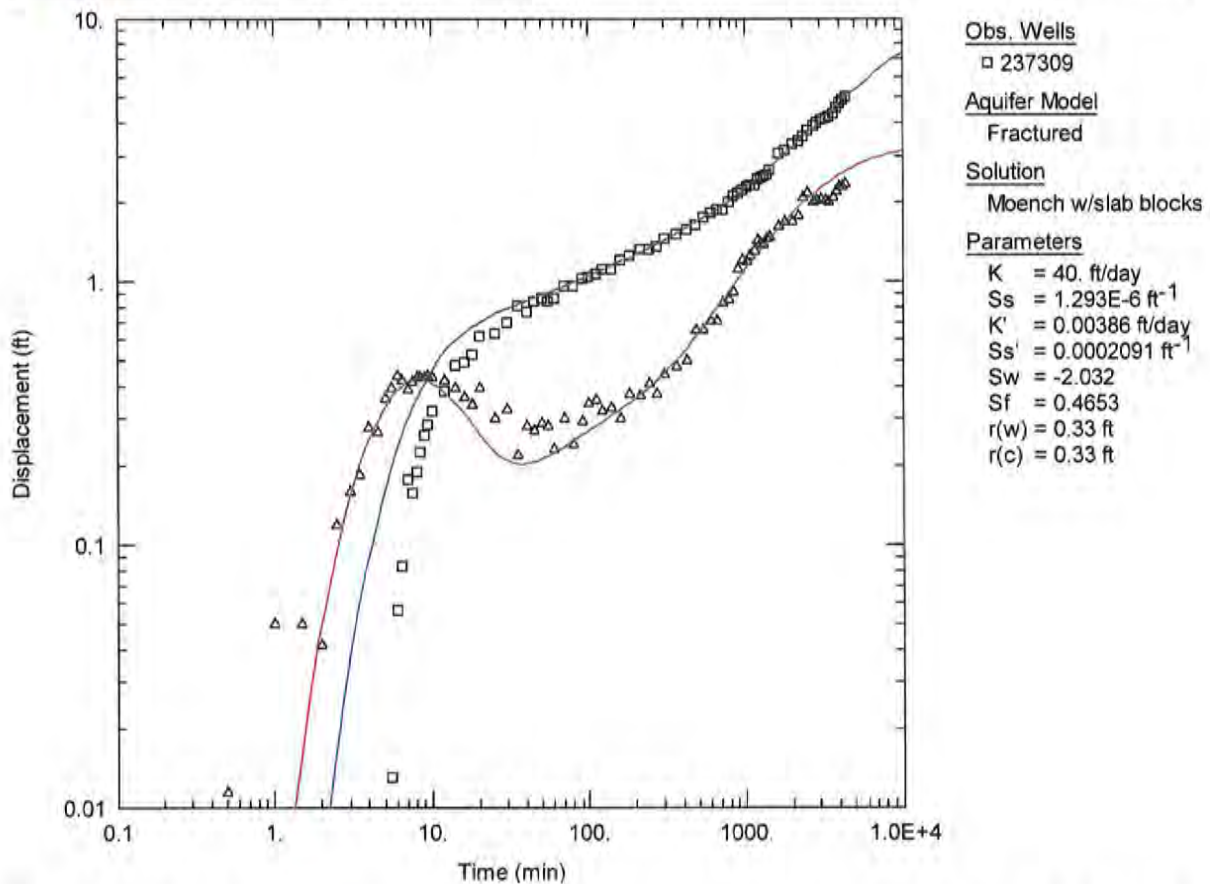


Figure 5: Moench (1984) drawdown and derivative curves for Observation Well, GWIC ID 237309.

Figure 4 shows the drawdown and derivative data for GWIC ID 237308 compared to the Cooper-Jacob (1946) solution when late-time radial flow conditions may apply. However, the derivative response for GWIC ID 237308, does not exhibit a straight line and thus, was shown as an initial estimate of aquifer properties to the Production Well.

Figure 5 shows the Moench (1984) solution compared to drawdown and derivative data for GWIC ID 237309 which suggests fracture flow in an aquifer(s) with double porosity. The analysis of late-time drawdown data shows a linear flow response which is characteristic of flow behavior in a single fracture or channel aquifer (Renard et al., 2009). A summary of the aquifer test analyses for GWIC ID 237308 and 237309 is shown in **Table 3**.



Table 3: Summary of aquifer test analyses.

Aquifer Test Phase	Well (GWIC ID)	Analysis Solution	T (ft ² /day)	S
Pumping	237308	Cooper-Jacob (1946)	1,871	NA
Pumping	237309	Moench (1984)	1,200	6.3×10^{-3}

The recommended aquifer properties to use in forward modeling are from the Moench (1984) analysis of the Observation Well, GWIC ID 237309 and include a K of 40 ft/day, S_s of 1.3×10^{-6} , K' of 0.004 ft/day, S_s' of 2.1×10^{-4} , S_w and S_f of -2.0 and 0.46, respectively. For comparison purposes, the fracture hydraulic conductivity was converted to a transmissivity (T) value as shown in **Table 3**, using the Observation Well (GWIC ID 237309) perforation length of 20 ft and an assumed stressed aquifer thickness of one and half the perforations, applied to confined aquifers (Weight, 2008). Using the assumed stressed aquifer thickness above, the matrix storativity (S) of 6.3×10^{-3} is approximately two orders of magnitude larger than the fracture S, and therefore, is the primary aquifer storage and is a representative S for confined aquifers (Fetter, 2001; Freeze and Cherry, 1979; Heath, 1983; Todd, 1980).

Additional Aquifer Tests

The Applicant provided additional aquifer testing data on Form No. 633 for Production Well, GWIC ID 237309 and Observation Well, GWIC ID 237308. The 24-hr constant rate test was performed at an average flow rate of 164.7 gpm between August 28, 2007, and August 29, 2007. The Production Well, GWIC ID 237309 and Observation Well GWIC ID 237308, experienced 225.50 ft and 2.22 ft of drawdown, respectively. **Figure 6** shows the drawdown and derivative data for GWIC ID 237309 compared to the Cooper-Jacob (1946) solution when late-time radial flow conditions may apply. The late-time bilinear flow regime supports the conceptual model of a bilinear flow in a permeable dike surrounded by less permeable country rock (**Figure 7**; Renard et al., 2009) **Figure 8** shows an estimate of aquifer properties derived the Moench (1984) solution using data collected in Observation Well, GWIC ID 237308.

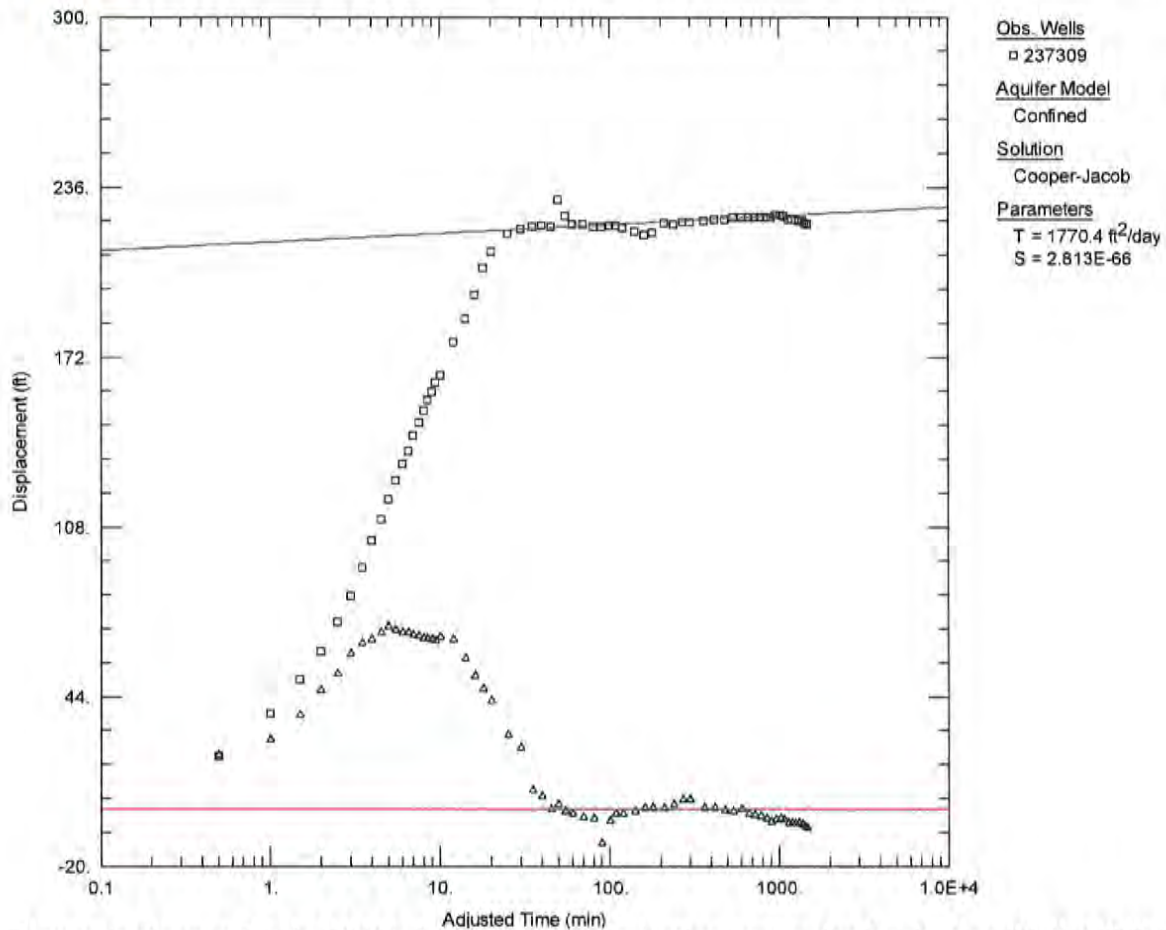


Figure 6: Cooper-Jacob (1946) drawdown and derivative curves for Production Well, GWIC ID 237309 as a result of the 24-hr aquifer test.

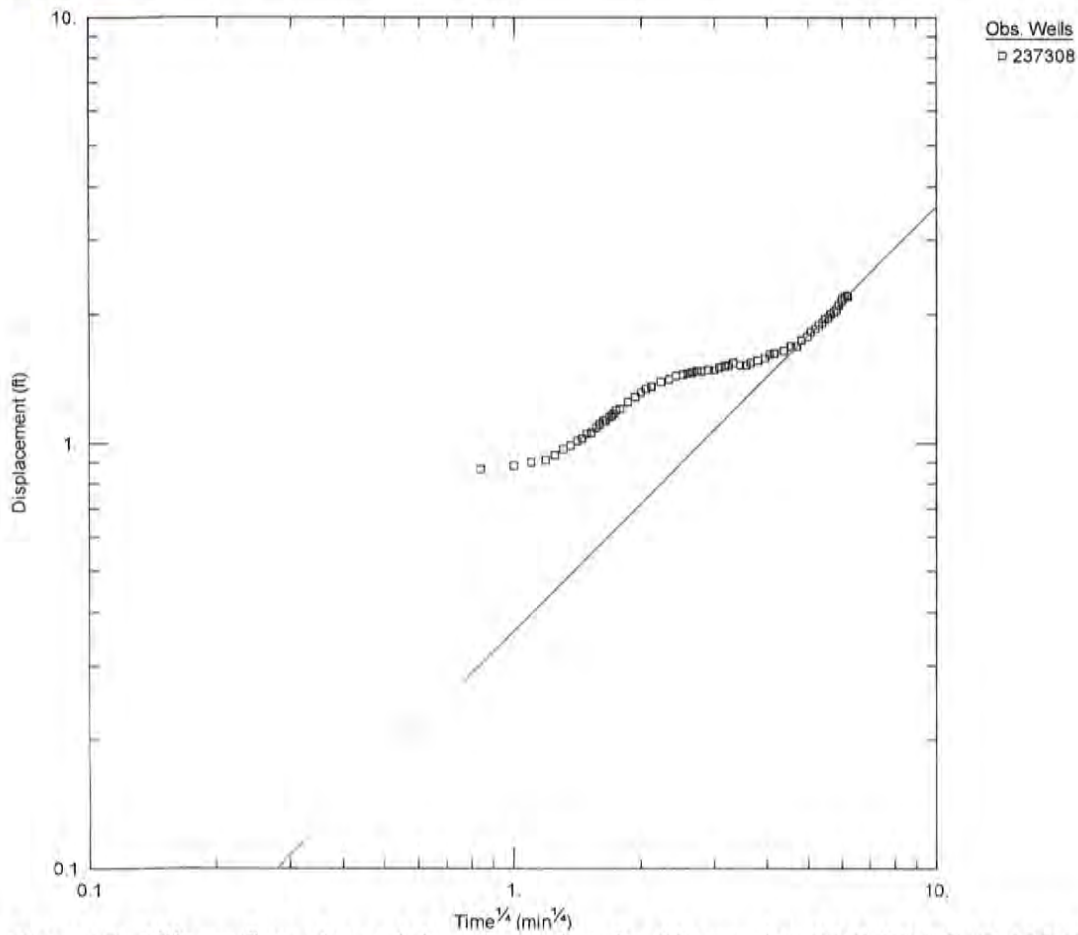


Figure 7: Bilinear flow plot and drawdown data for Observation Well GWIC ID 237308 because of the 24-hr aquifer test showing a 1:4 late-time slope indicating flow in a channel aquifer with permeable boundaries.

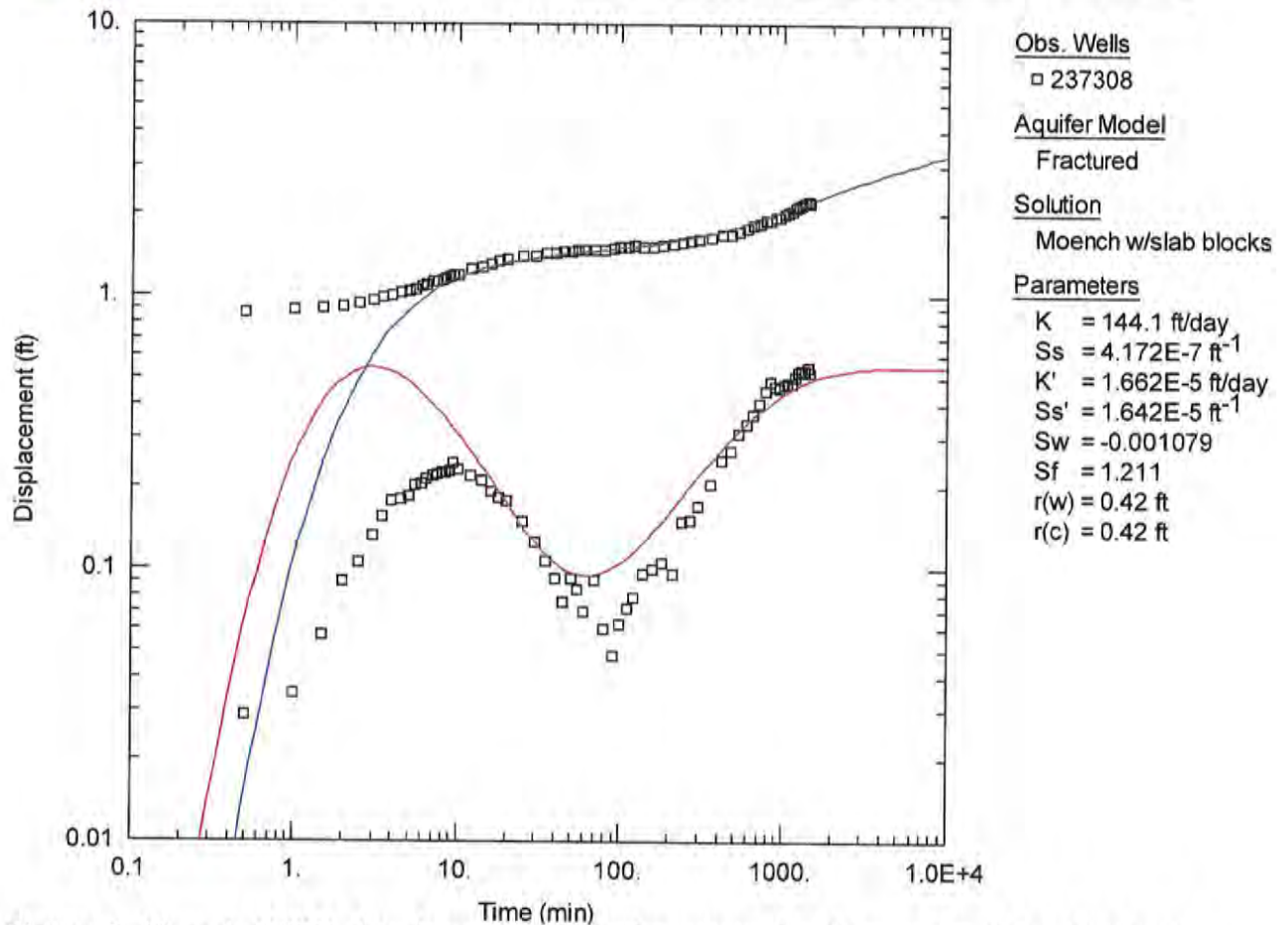


Figure 8: Moench (1984) drawdown and derivative curves for Observation Well, GWIC ID 237308.

Aquifer Property Comparison

As identified in **Figure 1** and in **Table 4**, the derived T and S of 1,200 ft²/day and S of 2.1×10^{-4} is within the range of values derived from nearby aquifer test data from the source aquifer.



Table 4: Aquifer Tests in the Belt Supergroup source aquifer near Lakeside (400BELT). (NA = Not available).

Water Right #	T (ft ² /day)	S	GWIC ID	Test Length (hr)	Pumping Rate (gpm)	Distance (miles)
76LJ 30071619	47	5.0E-05	211727	24	129	2.2
76LJ 30062687	16,160	8.2E-04	160594	144	340	3.0
76LJ 30147909	1,028	8.2E-04	160594	144	340	3.0
76LJ 30046400	700	NA	79248	24	100	5.4
76LJ 30065600	1,725	9.6E-05	226186	72	71	5.9
76LJ 30044582	13,480	9.0E-05	236930	24	39.7	6.4
76LJ 30048240	10,923	4.5E-04	140159	72	400	6.6
76LJ 30065735	1,220	3.0E-03	239209	24	77	7.0

5.0 Adequacy of Diversion Analysis

An evaluation of the available water column remaining in the Production Wells is modeled using the Moench (1984) solution, K of 40 ft/day, S_s of 1.3×10^{-6} , K' of 0.004 ft/day, S_s' of 2.1×10^{-4} , and S_f and S_w of -2.0 and 0.46, respectively. Predicted theoretical drawdown for the proposed wells is modeled for the period of diversion by apportioning the total monthly pumping rates (Table 6) to each well based on the contribution of each well to the total requested flow rate of 430.0 gpm.

As identified in Table 5, total drawdown is the sum of interference drawdown and predicted drawdown with well loss. Well loss is calculated by dividing the predicted theoretical maximum drawdown by a well efficiency value. Well efficiency is calculated by dividing the modeled maximum drawdown for the aquifer test by the maximum observed drawdown of the aquifer test. The aquifer adjacent to the proposed wells would experience a predicted theoretical maximum drawdown of 41.0 and 24.4 ft at the end of July of the first year of pumping (Figure 9 and Figure 10). Interference drawdown was added to the modeled drawdown in the non-pumping well, at the end of July of the first year of pumping to both GWIC ID in 237308 and 237309. The remaining available water column for GWIC ID 237308 and 237309 are equal to the available drawdown above the bottom of the perforations minus total drawdown.



Table 5: Remaining available water column for the Production Wells.

Drawdown Estimate	GWIC ID 237308	GWIC ID 237309
Total Depth at Bottom of Well Perforations (ft btc)	622.00	686.00
Pre-Test Static Water Level (ft btc)	340.96	364.6
Available Drawdown Above Bottom of Perforations (ft)	281.0	323.4
Observed Drawdown of Aquifer Test (ft)	24.4	225.5
Modeled Drawdown Using Mean Aquifer Test Rate (ft)	42.4	24.2
Well Efficiency (%)	100	11
Predicted Theoretical Maximum Drawdown (ft)	41.0	24.4
Predicted Drawdown with Well Loss (ft)	41.0	227.4
Interference Drawdown (ft)	7.1	12.1
Total Drawdown (ft)	48.1	239.5
Remaining Available Water Column (ft)	232.9	83.9

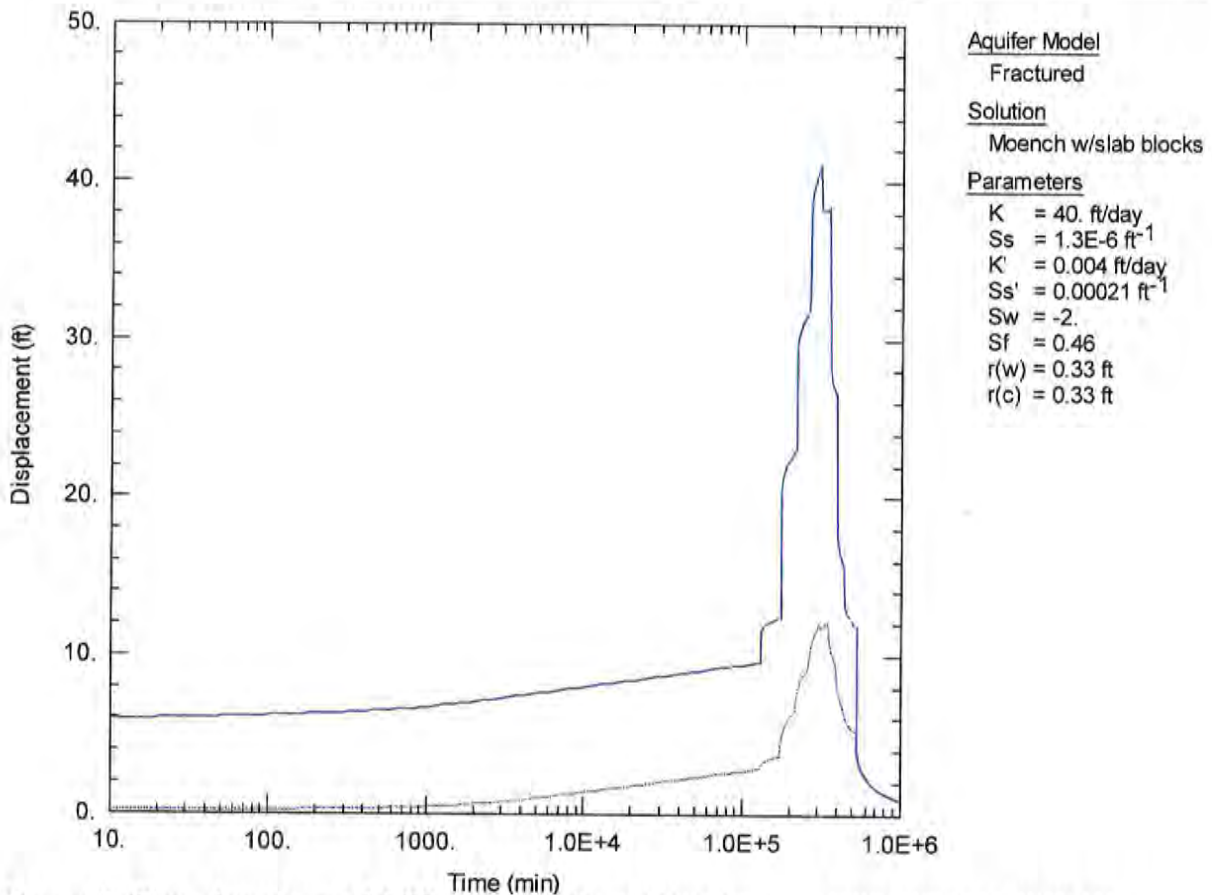


Figure 9: Time-drawdown of GWIC ID 237308 and interference drawdown for GWIC ID 237309 (bottom curve) using assumed monthly pumping schedule for one year.

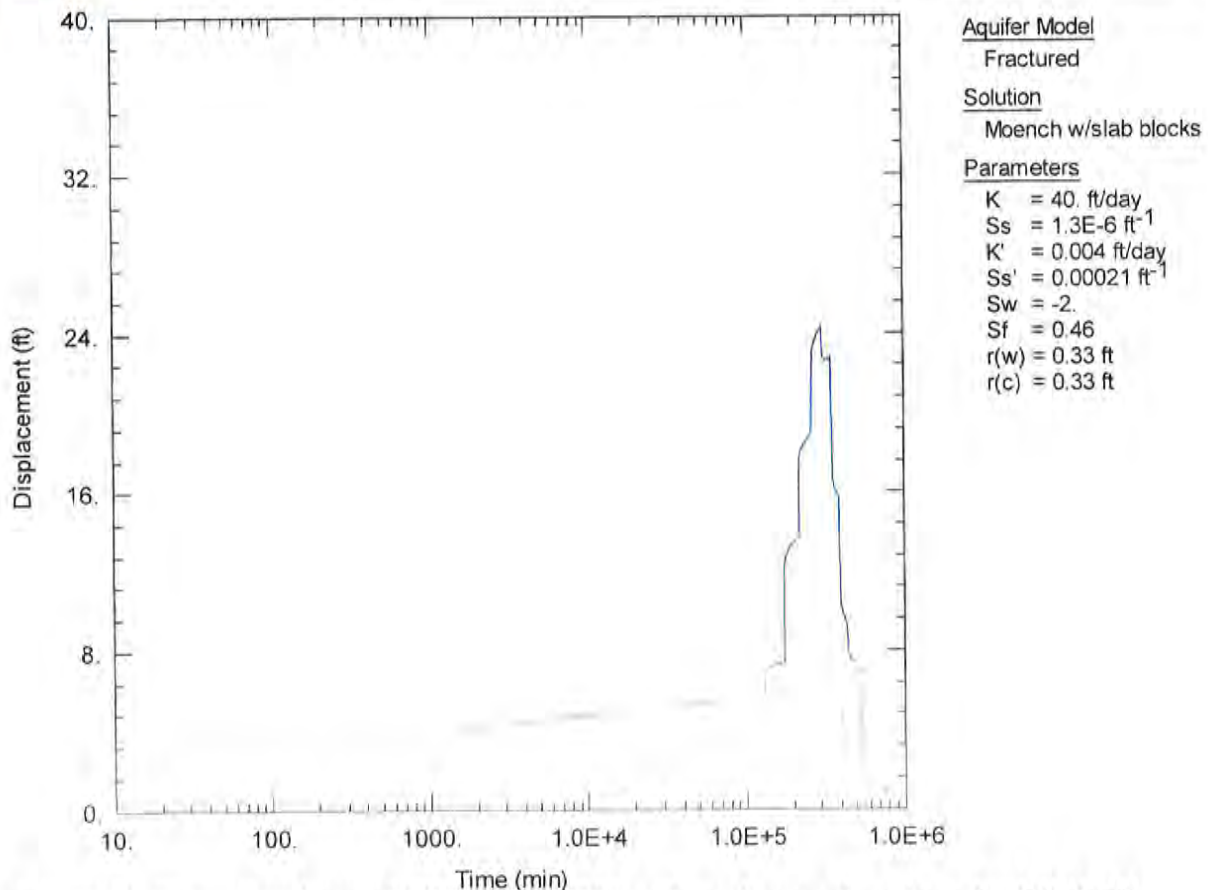


Figure 10: Time-drawdown of GWIC ID 237309 and interference drawdown for GWIC ID 237308 (bottom curve) using assumed monthly pumping schedule for one year.

6.0 Physical Availability Analysis

An evaluation of groundwater availability in the source aquifer for the purpose of evaluating physical and legal availability was done by calculating groundwater flux through a zone of influence (ZOI) corresponding to the 0.01-foot drawdown contour (DNRC, 2019). A grid was generated in AQTESOLV® (HydroSOLVE, Inc., 2007) using the Moench (1984) solution, a normalized monthly pumping rate of 154.6 gpm to produce the requested annual volume of 249.4 AF, a K of 40 ft/day, S_s of 1.3 x 10⁻⁶, K' of 0.004 ft/day, S_s' of 2.1 x 10⁻⁴, and Sf and Sw of -2.0 and 0.46, respectively. Assuming a constant-head-boundary at the Flathead Lake and a no-flow boundary representing the series of faults west of the project location mapped by Harrison et al. (1986) and Harrison et al. (2000), the exported grid shows the 0.01-foot drawdown contour extends a maximum distance of approximately 34,000 ft from the Applicant's wells.

As identified in **Figure 12**, the 0.01-foot drawdown contour extends along the extent of the mapped faults (Harrison et al., 1986; Harrison et al., 2000) southeast to West Shore State Park and northwest approximately 34,000 ft. The direction of groundwater flow is to the Flathead Lake, from west to east, as such the width of the ZOI that is perpendicular to groundwater flow equals



approximately 47,000 ft. [Appendix A](#) is a list of the 500 groundwater rights in the source aquifer that need to be evaluated as a legal demand. The calculation for groundwater flux (Q) through the delineated area is given by Eq. 1 and is 564,000 ft³/day or 4,726 AF/year:

$$Q = TWi$$

where:

T = Transmissivity = 1,200 ft²/day

W = Width of Zone of Influence = 47,000 ft

i = Groundwater Gradient (from potentiometric surface mapping in Provisional Permit No. 76LJ 30062687 and Land and Water Consulting Inc. (2003)) = 0.01 ft/ft.

7.0 Adverse Effect Analysis

Using the Applicant's proposed pumping schedule and associated annual volume, potential impacts to existing water rights is evaluated by modeling drawdown in nearby wells and net depletions to surface water(s).

7.1 Groundwater - Drawdown in Existing Wells

To model the drawdown in existing wells from the proposed wells, a grid was generated in AQTESOLV® (HydroSOLVE, Inc., 2007) using the Moench (1984) solution, K of 40 ft/day, S_s of 1.3 x 10⁻⁶, K' of 0.004 ft/day, S_s' of 2.1 x 10⁻⁴, and S_f and S_w of -2.0 and 0.46, respectively, and the assumed monthly pumping schedule for a period of five years as shown in **Table 6**. The drawdown is the largest at the end of the fifth July using the assumed monthly pumping schedule. The two proposed wells were modeled as one well using one diverted volume and flow rate schedule shown in column 3 of **Table 6**.

Table 6: Assumed monthly pumping schedule for proposed wells.

Month	Diverted Volume (AF)	Diverted Flow Rate (gpm)
January	10.5	76.4
February	9.5	76.4
March	10.5	76.4
April	13.1	99.0
May	25.7	187.7
June	34.2	257.7
July	45.1	329.3
August	40.9	298.5
September	25.5	192.3
October	13.9	101.4
November	10.1	76.4
December	10.5	76.4
Total	249.4	



As identified in **Figure 10**, the maximum modeled drawdown at the centroid of the proposed wells is approximately 80.0 ft at the end of the fifth July of pumping. Assuming a constant-head-boundary at the Flathead Lake and a no-flow boundary representing the series of faults west of the project location mapped by Harrison et al. (1986) and Harrison et al. (2000), 341 water rights are predicted to experience drawdown equal to or greater than one foot (**Figure 11**) and are included in [Appendix B](#).

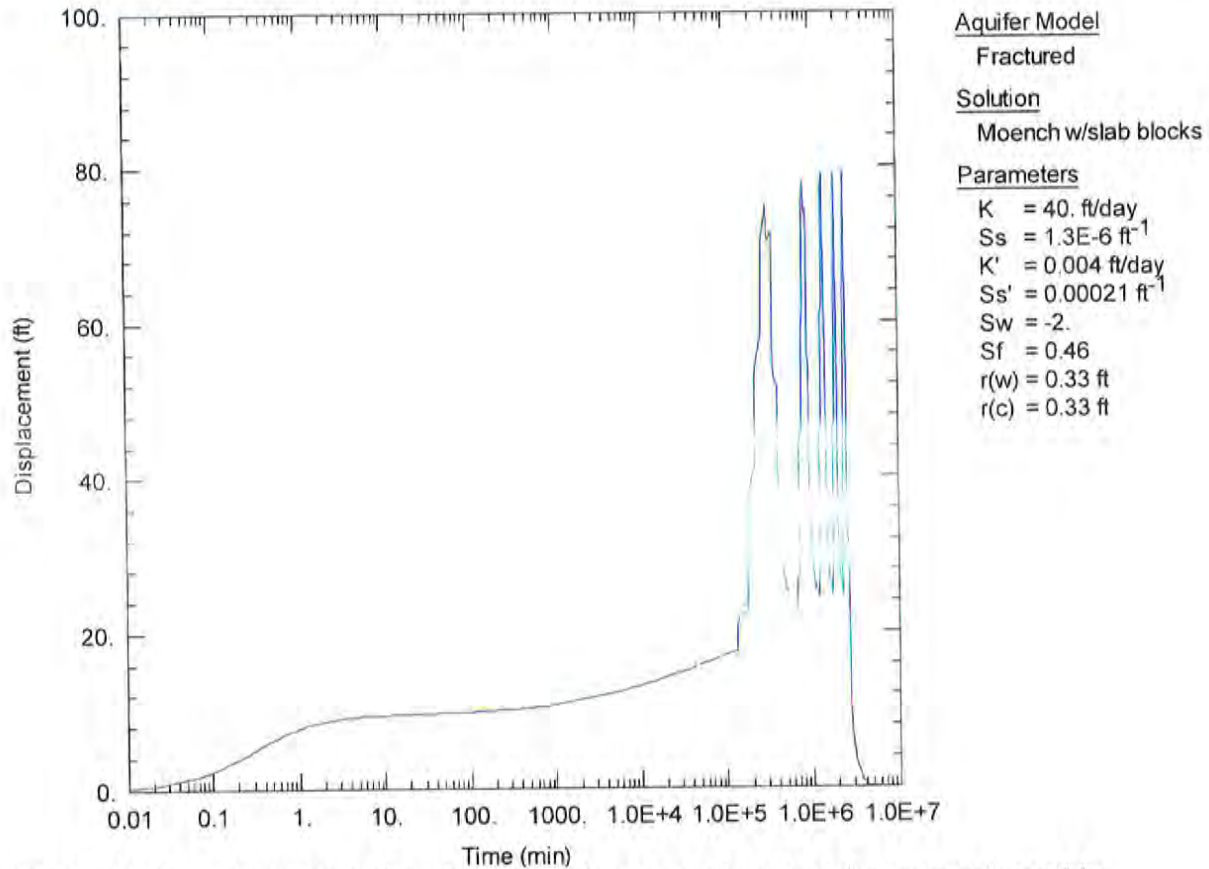


Figure 11: Time-drawdown plot of pumping the proposed wells at the assumed monthly pumping schedule for five-years.

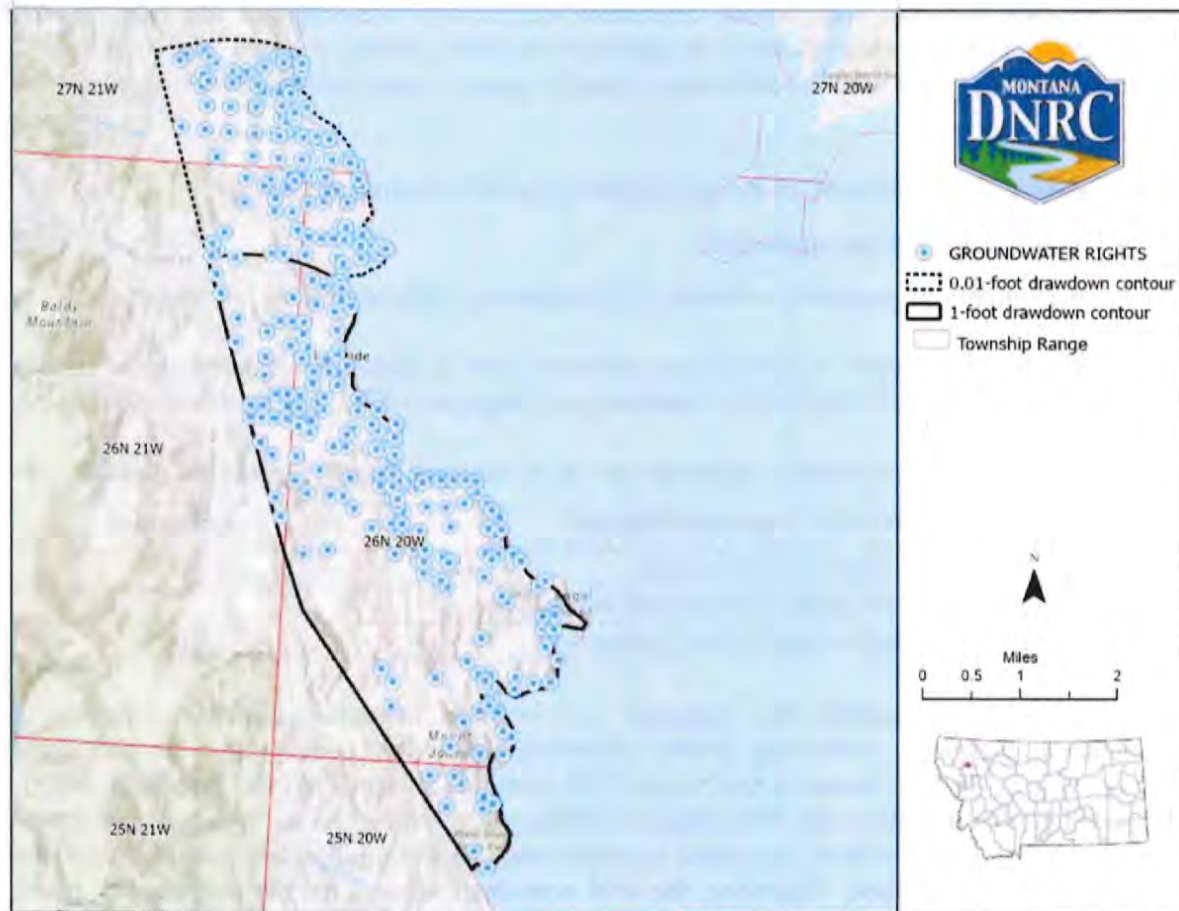


Figure 12: 0.01-foot and 1-foot drawdown contours at the end of 1-year of constant-rate pumping and end of July of the fifth year of pumping using the assumed monthly pumping schedule identified in **Table 6**.

7.2 Surface Water - Net Depletion

Net depletion is equal to consumption for a proposed groundwater use and is described as the calculated volume, rate, timing, and location of reductions to surface water that are offset by return flows (non-consumed water). Net depletion is evaluated by 1.) quantifying the consumed volume associated with the proposed use; 2.) identifying hydraulically connected surface waters; and 3.) calculating the monthly rate and timing of net depletions to affected surface water(s).

1. Consumed Volume

Consumed groundwater does not return to the source aquifer. Consumed volume depends on the proposed use and its associated percentage of known consumption. Depletion is assumed to be equivalent to consumption on an annual basis unless return flows do not accrete to the potentially affected surface water.

Monthly consumption for irrigation can be calculated using irrigation efficiency values or the net irrigation requirement calculated using the USDA Natural Resources Conservation Service



(NRCS) IWR program with inputs consistent with DNRC consumptive use rules in ARM 36.12.1902. Monthly consumption for irrigation of turf grass (lawns) is based on the net irrigation requirement from IWR with the following inputs for pasture grass and sprinkler irrigation:

- dry year
- have IWR re-calculate start and end date using default temperature
- 1-inch net irrigation application
- 0.25-inches of carryover moisture at the beginning and end of growing season.

Consumption for domestic or institutional purposes listed in **Table 7** are based on the results of studies by Kimsey and Flood (1987), Vanslyke and Simpson (1974), and Paul et al. (2007).

Table 7: Percent consumption for domestic use by wastewater disposal/treatment method.

Wastewater Treatment/Disposal	Consumed
Individual drainfields	10%
Central treatment facility with minimal consumption	5%
Evaporation basin or land application	100%

For the subject application, the proposed use includes irrigation, multiple domestic, and commercial purposes. Following DNRC standards, the annual consumption for turf grass is estimated to be 88.3 AF based on the Polson (IWR) station (Station # MT6635) (NRCS, 2003) for lawn and garden irrigation and 70% irrigation efficiency. Commercial use and multiple domestic are assumed to have 100% of consumed volumes using an evaporation basin or land application disposal/treatment method. Therefore, the total consumed volume for the commercial, multiple domestic and lawn and garden irrigation is 211.6 AF per year. (**Table 1**).

2. Hydraulically Connected Surface Water(s)

Net depletions to surface water depend on propagation of drawdown to locations where surface water is hydraulically connected to groundwater, the hydraulic properties of an aquifer, and is not a function of groundwater flow rate or direction (Theis, 1940; Leake, 2011). Hydraulic connection depends on the depth to groundwater beneath the beds of surface waters and can vary along a reach and with time of year. Drawdown from pumping can propagate through the entire thickness of the confining layer to overlying aquifers or surface waters (Konikow and Neuzil, 2007).

Per guidance described in DNRC (2018), hydraulic connection of surface waters to ground water in an unconfined aquifer is evaluated by comparing streambed elevations to static ground water elevations measured in wells less than 50 ft deep and within 1,000 ft of surface water or from published water table maps. Surface water within that area is considered hydraulically connected to the unconfined aquifer if static ground water elevations are above or within 10 ft of the elevation of the stream bed. Further, hydraulic connection of surface waters to groundwater in fractured bedrock aquifers is evaluated by considering well depth, location and character of geologic structures, surface drainage patterns, and distance along the strike of a geologic structure that may provide hydraulic connection to surface water bodies (DNRC, 2019).



Stoner Creek, approximately 14,000 ft north of Application No. 76LJ 30165067, is surrounded by mapped alluvial deposits and was evaluated for hydraulic connection to shallow groundwater using standards described in DNRC (2018). The well, GWIC ID 155485, meets the DNRC (2018) criteria for potential hydraulic connection between surface water and shallow groundwater near Stoner Creek. However, the alluvial deposits are considered hydraulically distinct from the Belt Supergroup formation because of underlying glacial till deposits that may act as a confining unit (Smith, 2004a). The strike and dip of the source aquifer, the extent of 100-foot confining layer through the Stoner Creek watershed as mapped by Smith (2004a) and large difference in potentiometric surface elevation of the Belt supergroup and the water table of the alluvial aquifer that interacts with Stoner Creek, suggests the Belt Supergroup source aquifer and Stoner Creek are not hydraulically connected.

Forrey Creek, approximately 10,700 ft south of Permit Application No. 76LJ 30165067 flows between the Ravalli group and Piegan group of the Belt Supergroup composed of argillite and limestone. The creek has moderate to deep calcareous till soils along its floodplain, a gradient between 2 to 4 percent and moderate sinuosity (DNRC, 2011). Forrey Creek is one of few streams in the area that contributes flow to Flathead Lake (DNRC, 2011). There is a likelihood of hydraulic connectivity of Forrey Creek to the fractured sedimentary bedrock aquifer of the Belt Supergroup within its catchment of relatively high relief (Providence of British Columbia, 2016). However, the proposed project is outside the drainage area of Forrey Creek and the mapped normal faults near the Lakeside area do not intersect Forrey Creek based on geologic mapping by Harrison et al. (2000). Lastly, limited site-specific evidence is available that would indicate pumping from the proposed wells would ultimately reduce discharge to Forrey Creek.

Therefore, based on geologic structural information and proximity, the Flathead Lake, approximately 7,800 ft east of the project location, is considered hydraulically connected to the source aquifer for Application No. 76LJ 301635067 and is considered for the rate and timing of depletions.

3. Rate and Timing of Depletions

Evaluations of the rate and timing of depletions caused by pumping are based on the basic concept that groundwater pumping eventually is offset by an equivalent increase in recharge or decrease in discharge (Theis, 1940; Leake et al., 2008), a process defined as capture by Lohman (1972). Capture occurs as drawdown propagates to surface water and areas of phreatophyte vegetation (areas of groundwater discharge) that takes water directly from groundwater. In the absence of credible evidence to the contrary, capture of ET by phreatophytes is neglected and net depletion is assumed to equal total capture. This assumption is justified because published estimates for conditions common in Montana alluvial valleys indicate capture of ET generally is less than 10 percent of total capture (Xunhong, 2006). Capture of ET in ephemeral drainages may be significant and will be evaluated on an application-by-application basis.

The rate and timing of net depletion caused by pumping may be modeled using a variety of analytical and numerical models selected to fit site-specific conditions and needs. Simple models including the Alluvial Water Accounting System (AWAS) and the Well Pumping Depletion Model (WPDM) typically are used by DNRC to model depletions to one source with simple aquifer



boundaries. Adjustments may be made for more complex conditions or multiple sources using methods like those described by Contor (2011), analytical models by Hunt (2003) and Butler et al. (2001) or a superposition numerical groundwater flow model.

Modeling is not necessary in some situations such as where a proposed use is constant year-round because of the depth to the source aquifer and the distance to potentially affected stream reaches. Modeling of depletions can be simplified if the proposed place of use is located the same relative distance from the potentially affected surface water as the proposed wells and all non-consumed water infiltrates the source aquifer and returns to the potentially affected surface water as return flows. Under those simplifying assumptions, depletion can be modeled based on withdrawal of the monthly consumed amounts. Otherwise, depletion by the full withdrawals and return flows need to be modeled separately with net depletion calculated as depletion minus return flows.

The proposed use includes year-round and seasonal consumed volumes, however, due to the nature of the confined bedrock aquifer, depletions would accrete to the Flathead Lake at a constant year-round net depletion rate of 131.2 gpm. **Table 8** identifies the monthly consumed volume while **Table 1** identifies the timing of net depletion to the Flathead Lake.

Table 8: Consumed volume schedule for Application No. 76LJ 30165067.

Month	IWR (in) - Polson	Irrigation Consumed Volume (AF)	Commercial and Multiple Domestic Consumed Volume (AF)	Total Consumed Volume (AF)	Total Consumed Flow Rate (gpm)
January	0.0	0.0	10.5	10.5	76.4
February	0.0	0.0	9.5	9.5	76.4
March	0.0	0.0	10.5	10.5	76.4
April	0.49	2.1	10.1	12.2	92.2
May	2.50	10.7	10.5	21.1	154.3
June	3.94	16.8	10.1	27.0	203.3
July	5.68	24.2	10.5	34.7	253.4
August	4.99	21.3	10.5	31.8	231.9
September	2.52	10.8	10.1	20.9	157.6
October	0.56	2.4	10.5	12.9	93.9
November	0.0	0.0	10.1	10.1	76.4
December	0.0	0.0	10.5	10.5	76.4
Total	20.68	88.3	123.3	211.6	

Review

This document has been reviewed on January 24, 2025 in accordance with Category 7 of [DNRC's Water Sciences Bureau Minimum Standards of Review](#), Version 2, February 2024.

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Appendix A: Groundwater Rights within Area of Potential Impact



WRNUMBER	ALL OWNERS
76LJ 115782 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30147909	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30051925	BOZZO, ANTHONY AND VALERIE FAMILY TRUST
76LJ 46820 00	DEBORAH R JOY
76LJ 30049314	WONG FAMILY TRUST
76LJ 30111684	DOUGLAS D VAN OSTEN; JANETTE R VAN OSTEN
76LJ 30149203	NIELSEN FAMILY TRUST
76LJ 30154572	OLSON, BERNARD T AND MARILYN A FAMILY TRUST
76LJ 43881 00	BENJAMIN J LARD; LACI L LARD
76LJ 30021102	KATHRYN J MARTONE-MITCHELL; JAMES R MITCHELL
76LJ 30108759	DIANE F ALLEN; THOMAS L ALLEN
76LJ 30158659	GARY MECCIA; LINDA M MECCIA
76LJ 78107 00	DENNIS E RASMUSSEN
76LJ 30119738	JOE MURPHY; VICTORIA MURPHY
76LJ 30071533	NANCY J COOPER
76LJ 30064082	O'SUNNY SLOPE LLC
76LJ 30070455	MACAULEY, ROBERT J & GAIL M JOINT LIVING TRUST
76LJ 30048446	BECKMAN-MITCHELL FAMILY TRUST
76LJ 30161956	ROCKCREEK CAMP LLC
76LJ 30066197	BRITTON, LESLIE D TRUST; JOHN C DRESCHER; KEVIN B DRESCHER; MICHAEL P DRESCHER; DRESCHER FAMILY TRUST; DRESCHER SURVIVORS TRUST
76LJ 30050349	JASON GHERA
76LJ 72073 00	527 CONRAD POINT DRIVE LLC
76LJ 30119320	GREGORY L BADEN; GWEN K BADEN
76LJ 30150737	RUBLY, WILLIAM AND KIMBERLY LIVING TRUST
76LJ 75008 00	CHARLENE APPEL
76LJ 30118126	CAVIGLIA FAMILY REVOCABLE TRUST
76LJ 30161850	PALMER, ANDREA E REVOCABLE TRUST
76LJ 30163466	RAVE LIVING TRUST
76LJ 101315 00	BEVERLY C PARDINI
76LJ 84213 00	SCOTT F GALLOWAY
76LJ 30150528	SHRR2 LLC
76LJ 30049538	JASON GHERA
76LJ 30163101	CARTER ROSE DESIGN DEVELOPMENT LLC
76LJ 30121906	MARK R BEVERIDGE
76LJ 30066890	CHRISTINE DOLAN; ERIN M DOLAN; JON A DOLAN
76LJ 30045008	ROBBIE L HAPNER
76LJ 71797 00	CAROLINE CASTEEL; WILLARD A OFTEDAL
76LJ 30163322	AARON TALLY; TYRA TALLY
76LJ 30160657	JUDITH A FOUNTAIN
76LJ 30043039	JOHN CAHILL; MARIA CAHILL



76LJ 72537 00	CARLSON, BRENT W TRUST
76LJ 72089 00	KENNETH L STONER; KENNETH L STONER; STEPHANIE A STONER
76LJ 30047368	DANEL FRIELING
76LJ 82554 00	APPLEWAY SUBDIVISION WATER USERS ASSN
76LJ 30071526	RH 2012 MANAGEMENT TRUST
76LJ 90255 00	THOMAS T COLYER; CHRISMAN L SWANBERG
76LJ 30139106	BARRY MILBRANDT; INGRID MILBRANDT
76LJ 30103222	LAURA KELLER-WOLFF; RANDY WOLFF
76LJ 85701 00	HOEFLE, KRISTIN M REVOCABLE TRUST
76LJ 30159273	BENNETT REVOCABLE TRUST
76LJ 30047533	STEPHANIE M SEHER
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 101214 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30046414	BLAIR FRACHE; JANET FRACHE
76LJ 30044427	ROBINSON, LOUISE TRUST
76LJ 30155353	JOSEPH L FAGAN; SUZANNE L KLADDER
76LJ 30046771	WRIGHT TRUST
76LJ 30151749	ROBINSON, DANA STEVEN LIVING TRUST; ROBINSON, LINDA CONSTANCE LIVING TRUST
76LJ 30107590	GLEN D SMITH
76LJ 89264 00	ROBERT I BARBER
76LJ 30123599	LE BLANC, BRYAN J & DARLENE B REVOCABLE TRUST
76LJ 30113195	PATRICIA A SAINT JOHN
76LJ 30050346	SKYHOUSE COVENANT GROUP LLC
76LJ 30161296	MARIA HARRINGTON; TODD HARRINGTON
76LJ 97280 00	DARLENE NARDI; STEVE NARDI
76LJ 30046273	CAROL PETERSON; DUNCAN SMITH
76LJ 30051244	JAMES NORVELL
76LJ 30148972	ALICIA LARA; THEODORE LARA
76LJ 30069328	ASHWOOD LIVING TRUST
76LJ 30112827	SCOTT C HELD
76LJ 30063422	KLAUSNER FAMILY TRUST
76LJ 85747 00	EDD MGMT ANGEL POINT LLC
76LJ 30160877	WILDERNESS LAND HOLDINGS LLC
76LJ 28684 00	ROBERT W LUDWIG
76LJ 40158 00	WASHINGTON PARK COMMERCIAL CENTER LLC
76LJ 73092 00	JULIANE L KETCHER; NEAL F KETCHER
76LJ 76516 00	CRAIG YATES
76LJ 30383 00	WILFRED P DUFOUR
76LJ 33566 00	KASTEN 2019 REVOCABLE TRUST
76LJ 104732 00	JAMES WININGER; RONALD WININGER; SHEILA S WININGER
76LJ 65052 00	KING LIVING TRUST



76LJ 51744 00	GARY R NELSON; MARK T NELSON; STEVEN NELSON; CHERISE THOMPSON; BRETТА VIGUE; MICHAEL VIGUE; WONG FAMILY TRUST
76LJ 19374 00	PETER J JACOBSON; SALLY A JACOBSON
76LJ 13979 00	ELIZABETH A ROBINSON
76LJ 40876 00	EDWARD F MARQUETTE
76LJ 64194 00	BRADLEY K BAILEY; DONNA R BAILEY
76LJ 47626 00	SUNDE REVOCABLE LIVING TRUST
76LJ 60094 00	LOUIS G JESSOP; SARALEENA JESSOP
76LJ 28102 00	FLICK THE LIGHTS LLC
76LJ 52653 00	ANN L DALEY; MARY M LENON
76LJ 68713 00	HEDIN, ROBERT & PEGGY TRUST
76LJ 30709 00	ELOISE J BACKER; STEVE BACKER
76LJ 62001 00	KATHLEEN A ANTUNA; PAUL K ANTUNA
76LJ 64961 00	KATHRYN SCHINDELAR
76LJ 65019 00	ENGDAHL FAMILY LLC
76LJ 63104 00	TED KNOTT
76LJ 64234 00	BEARS DEN TRUST; ROSTIS N TIMOSHCHUK; YULIYA N TIMOSHCHUK
76LJ 24733 00	KREPS, BRIEN D & CAROLYN B JOINT REVOCABLE TRUST
76LJ 37181 00	BONNIE L RIEDEL
76LJ 27299 00	JUDITH M PETERS
76LJ 22844 00	GWENDOLYN L ANDERSON; LORANCE ANDERSON
76LJ 51679 00	HEIDI L LOWELL; ALISDAIR JM MADEN
76LJ 43014 00	POLING VIDA N REVOCABLE TRUST
76LJ 70110 00	BRITTON, LESLIE D TRUST; JOHN C DRESCHER; KEVIN B DRESCHER; MICHAEL P DRESCHER; DRESCHER FAMILY TRUST; DRESCHER SURVIVORS TRUST
76LJ 66509 00	CAMERON G HAWORTH; LESLIE A HAWORTH
76LJ 43883 00	KIMBERLY R RING; SCOTT T RING
76LJ 30226 00	JEAN AGATHER
76LJ 15248 00	DEBORAH P HIRD
76LJ 69726 00	CDN LAKESIDE PROPERTIES LLC
76LJ 64964 00	2014 HERMES MANAGEMENT TRUST
76LJ 58665 00	NICKELS FAMILY TRUST
76LJ 3601 00	LEAH E CLOTHIER
76LJ 60235 00	ANGEL POINT PRESERVE LLC
76LJ 30043362	BRITTNEY BRATTON; DEREK BRATTON
76LJ 40788 00	LAMB, STEPHEN P TRUST
76LJ 46796 00	HAMM FAMILY TRUST
76LJ 69782 00	ROBERT W LEGLEND
76LJ 59328 00	DAVID SECREST
76LJ 30157917	SCOTT W HOOPER; SUSAN R HOOPER



76LJ 30154861	CHRISTINE M KLEINSASSER; GARY A KLEINSASSER
76LJ 79342 00	RETA J SMITH; ROCKWELL L SMITH
76LJ 95741 00	MARIE A HEITMAN
76LJ 30046403	MITCHELL R CARPENTER; SAVANNAH WHITE
76LJ 98333 00	MARIA JOHNS
76LJ 93047 00	EVONNE M HELEAN; PHILIP D HELEAN
76LJ 30001699	MARK S UNRUH
76LJ 116224 00	ISTHMUS LLC
76LJ 30049581	JOSEPH J JACZINSKI
76LJ 30113598	DIRK E GIFFORD; RACHAEL E GIFFORD
76LJ 30160747	YVETTE M BARRETO; ALEX L BLYTHE
76LJ 106757 00	KULINA, MERI STEVENS REVOCABLE TRUST
76LJ 87039 00	MONTANA LAND PROJECT
76LJ 30001435	BRUCE K DUKELOW; KYLE B DUKELOW
76LJ 115186 00	MARGARET A FORD MITCHELL; MICHAEL J WHITEHILL
76LJ 30004719	GLACIER RIDGE LLC
76LJ 109345 00	D & L FAMILY LIMITED PARTNERSHIP
76LJ 95301 00	LEICHT FAMILY TRUST
76LJ 105317 00	JUDY BROWN; BROWN, DAVID & LYNN FAMILY TRUST
76LJ 106749 00	CORETTE, ERIN T REVOCABLE TRUST; CORETTE, KIMBERLY E REVOCABLE TRUST
76LJ 109402 00	CARDI CHMIELEWSKI; TONI M CHMIELEWSKI
76LJ 109286 00	THOMAS T COLYER; CHRISMAN L SWANBERG
76LJ 30160876	DEER CREEK SOMERS LLC
76LJ 97237 00	ANDERSON FAMILY TRUST
76LJ 30045071	STEVE WAJDIC
76LJ 87019 00	VIGNERE LIVING TRUST
76LJ 111113 00	SAUER, ANNE H FAMILY TRUST
76LJ 30108852	PALS CABINS AT LAKESIDE I LLC
76LJ 30010657	PALMER, ANDREA E REVOCABLE TRUST
76LJ 117754 00	DOUGLAS LESSARD; PATTY F LESSARD
76LJ 30049476	BJORNAR SOLLIE; PATRICIA A SOLLIE
76LJ 106799 00	SCHOCK FAMILY TRUST
76LJ 97271 00	CJS ENTERPRISES OF MONTANA LLC
76LJ 91101 00	KEITH J RICHARDS; MARGARET L RICHARDS
76LJ 30102765	MICHAEL KOONTZ; PATRICIA KOONTZ
76LJ 111175 00	BARBARA D WYNN; HOWARD L WYNN
76LJ 30065532	BAIRD FAMILY REVOCABLE TRUST
76LJ 97138 00	CAROLE S HENDRICKSON; KYLE HENDRICKSON; ADAM P ORMISTON; CHERYL A ORMISTON
76LJ 91048 00	SCOTT M BRUCE; NANCY E DOWNS
76LJ 97285 00	FLATHEAD LUTHERAN BIBLE CAMP
76LJ 30120362	LARRY G HAWTHORNE



76LJ 30002118	AUBRIE A KALLENBERGER; DANIEL R KALLENBERGER
76LJ 113416 00	SKY RESERVE LLC
76LJ 109776 00	IRENE HUGIE; JOHN R HUGIE
76LJ 114101 00	SKY MEADOWS LLC
76LJ 30005984	KATHY A POLEJEWSKI
76LJ 30002814	KABIRI, CAROLINE KITCHELL 2012 TRUST NO 1
76LJ 102635 00	MARILYN D GATZEMEIER
76LJ 97310 00	BRADLEY CAIN
76LJ 30004533	JUST GETTING STARTED LLC
76LJ 30000936	CARL COVEY; PAULA COVEY
76LJ 102537 00	JOHN G HARP
76LJ 112728 00	GARY R FLADSTOL
76LJ 30028966	CORINNA D KEELER; RYAN P KEELER
76LJ 62915 00	AMANDA L MARTIN; HENRY R MARTIN
76LJ 30023729	CHRISTA MCVICKER; ROBERT MCVICKER
76LJ 30114441	STIMPSON, JAIME KC REVOCABLE TRUST; STIMPSON, WILLIAM R REVOCABLE TRUST
76LJ 30051639	FALZON, KYLE D & JENNIFER M FAMILY TRUST
76LJ 97284 00	KAREN SWISHER
76LJ 30070718	BRUNDIGE, EVA ANN NORVELL LIVING TRUST
76LJ 30110203	WINRICH, KURT & DEBRA FAMILY TRUST
76LJ 30157971	AUTUMN GOTTSCHLICH; KENNETH GOTTSCHLICH
76LJ 30161450	CONNIE J AMBROSE; CRAIG AMBROSE
76LJ 30158039	WINTER FAMILY TRUST
76LJ 30069780	CJSR ENTERPRISES OF MONTANA LLC
76LJ 30116375	RAYMOND D MERRILL; SONJA M MERRILL
76LJ 30070666	NANCY C BARBER; RICHARD D BARBER
76LJ 30160702	BLAKE BRATT; SHILPA BRATT
76LJ 30155518	ATKINSON TRUST
76LJ 30162734	DEBORAH S DAVIS; GREGG E DAVIS
76LJ 50811 00	DARCY G LARD
76LJ 101278 00	DAWN M MADDUX; JAMES T MADDUX
76LJ 30048348	SKY AIR ENTERPRISES
76LJ 86977 00	EUGENE F FORSYTH; MARJORIE A FORSYTH
76LJ 4699 00	BNJC LLC; HUTTEN FAMILY TRUST
76LJ 30071620	ALICE V PATRICK
76LJ 30071907	CROMER FAMILY REVOCABLE TRUST; CROMER, DIANE M TRUST
76LJ 22607 00	PRESBYTERY OF GLACIER
76LJ 50006 00	COLLEEN MCGILLIS; NORMAN MCGILLIS
76LJ 215039 00	BEVERLY A GRIFFIN; RODNEY J GRIFFIN
76LJ 30163659	L & M REVOCABLE TRUST
76LJ 8314 00	CHAUTAUQUA TERRACE HOMEOWNERS ASSN



76LJ 4527 00	KENNETH F SKOOG; CHRISTI L SMALL
76LJ 40983 00	22 HOLDINGS LLC
76LJ 30065950	PAUL M MABEN; ROBIN A MABEN
76LJ 43282 00	DAWN M MADDUX; JAMES T MADDUX
76LJ 30127146	DANIEL FROWNFELTER; DESTINY FROWNFELTER
76LJ 43525 00	DALE M BLAND
76LJ 110421 00	AMANDA L MARTIN; HENRY R MARTIN
76LJ 84927 00	BRAND, JANET AND HARRISON REVOCABLE TRUST
76LJ 30149515	KELLY B MCDONALD; LESLIE D MCDONALD
76LJ 90994 00	APPLEWAY SUBDIVISION WATER USERS ASSN
76LJ 30046692	ANGELA M YOUNG
76LJ 30164312	JAMMER GROUP TRUST
76LJ 64128 00	WINRICH, KURT & DEBRA FAMILY TRUST
76LJ 102590 00	WINRICH, KURT & DEBRA FAMILY TRUST
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30136791	ANNE M ROSADO; EDWARD J ROSADO
76LJ 30070669	NANCY BARBER; RICK BARBER
76LJ 30042851	THOMAS C SMITH; WILLIAM E SMITH
76LJ 78131 00	BARBARA G SMITH; ROBERT W SMITH
76LJ 30048096	JEFFREY A BOLSTAD; JILL D BOLSTAD
76LJ 30149524	CRAIG YATES
76LJ 30046276	DAVID SECREST
76LJ 30163751	ERIN OLSEN; RYAN N OLSEN
76LJ 30160370	ANTHONY L SORENTINO; LORELEI R SORENTINO
76LJ 30065465	TRISTELL VU
76LJ 30118125	LADEINE THOMPSON; RAYMON F THOMPSON
76LJ 106728 00	JANCE M PHILLIPS; MISTY R PHILLIPS
76LJ 98371 00	169 PEACEFUL LLC
76LJ 86368 00	JAMES J BILLMAYER; VICKI D BILLMAYER
76LJ 30146609	ALAN BAHNMILLER; CINDY BAHNMILLER
76LJ 82503 00	JOSEPH P EVE; MELANIE F VANKOTEN-EVE
76LJ 30008332	MIKAEL R BORJESSON; PATRICIA M BORJESSON
76LJ 93078 00	MICHAEL D MILLER; PAMELA LC MILLER
76LJ 30123750	WATERS, JOE N ROY & DEBRA A WATERS REVOCABLE TRUST
76LJ 30107910	MICHELE REYES
76LJ 30043668	HEATH FAMILY REVOCABLE TRUST DATED 07/25/2019
76LJ 30158658	CRAIG L BLAIR
76LJ 30117191	JESSE B LEDINGHAM
76LJ 30108853	PALS CABINS AT LAKESIDE I LLC
76LJ 99835 00	MADISON, KIM LIVING TRUST
76LJ 87620 00	MARTIN B WINGES
76LJ 104000 00	JOSEPH P EVE; MELANIE F VANKOTEN-EVE
76LJ 51685 00	JUDY L SALOMSON



76LJ 40352 00	R & R DEVELOPMENT CORP
76LJ 82368 00	STEPHANIE K GIRARDOT; TRAVIS C PINE
76LJ 81490 00	WEEKS FAMILY TRUST DTD JUNE 2022
76LJ 112765 00	MERCORD, KATHRYN F REVOCABLE TRUST
76LJ 98251 00	VICTOR C HOUSER; MYIA L HOUSER-POWERS
76LJ 109459 00	DALE M BLAND
76LJ 109716 00	HENRY C BALDAUF; JANET BALDAUF
76LJ 30108684	RANDY L MOHN
76LJ 89179 00	DANIEL A JENKINS; LINDA L JENKINS
76LJ 30153610	JAMES J BARRETT; MARTHA M BARRETT
76LJ 30000766	SHELLI D ALT
76LJ 108191 00	GARY BEUTLER; LELA BEUTLER; NELSON, PETER & CAROL FAMILY TRUST
76LJ 30111508	HAND, RODWICK REVOCABLE TRUST
76LJ 113472 00	DONALD J ANDERSON; SHERI L ANDERSON; DONALD L ERICKSON; DOROTHY L ERICKSON
76LJ 89235 00	GREGORY A GOODE
76LJ 90268 00	1523528 ALBERTA INC; HARRIS, CHRIS LEE & DEBRA KAY AB LIVING TRUST
76LJ 101265 00	JOHN E DE CROIX; DE CROIX, DEBORAH L REVOCABLE LIVING TRUST
76LJ 30124839	BRET BAILEY; LAUREN BAILEY
76LJ 60222 00	EDWARD G CROSS; ELAINE MCCLUNG
76LJ 57512 00	TERRY E JENSEN
76LJ 59364 00	DANIEL FROWNFELTER; DESTINY FROWNFELTER; DONNA B WALSTON; ANNE S YEGEN; PETER YEGEN
76LJ 50814 00	BONNIE L BROWN
76LJ 59384 00	BLOMGREN FAMILY TRUST
76LJ 30070536	YWAM MISSION BUILDERS INC
76LJ 30107976	HEATHER CHAMBERLAIN; SONYA HYMAS; WILLIAM R TANNER
76LJ 114566 00	64 LAKESIDE CREST DRIVE
76LJ 30163277	BONNIE JOHNSTON; DARREL JOHNSTON; GEORGIA C JOHNSTON; RYAN JOHNSTON
76LJ 30008082	JUDY L SHIFFMAN
76LJ 95816 00	CAREY S BELL; MOLLY BELL
76LJ 30154707	MATTHEW D CANTONI
76LJ 83769 00	MARY MOSHER
76LJ 34401 00	IVA F COLE; JERRY D COLE
76LJ 48883 00	CONN FAMILY PARTNERSHIP
76LJ 9776 00	CONNIE E BILL; GERALD L BILL
76LJ 147053 00	MERELYN K BRUBAKER; SHERI COLCUN-TRUMPFHELLER; KATHERINE CULVER; JESSE TAYLOR; JEAN P VAIL



76LJ 67794 00	OSCAR A SWENSON; TIETGE, TED & DEBBIE TRUST
76LJ 30161583	VIRGINIA J GAZEWOOD
76LJ 66538 00	KEVIN L CORNING; PAIGE N CORNING; ANN J HOAGLAND
76LJ 50007 00	RODNEY OLSON; TAMARA OLSON; CODY OSTERDAY; HOLLY OSTERDAY
76LJ 77445 00	BLAKE BRATT; SHILPA BRATT; DANIEL D MARGENAU; JENNIFER L MARGENAU
76LJ 52692 00	CHRESTEN M KNAFF; TIFFANY N KNAFF
76LJ 30126836	WHISPERING TRAILS LLC
76LJ 31032 00	H J KYHL
76LJ 30125381	EAVES LIVING TRUST
76LJ 66588 00	DONALD E WOOD; DOROTHEA R WOOD
76LJ 39825 00	MOODYS REAL ESTATE LTD
76LJ 47152 00	MARK S CONNELL; NANCY JO CONNELL
76LJ 146955 00	KOELLER FAMILY TRUST
76LJ 30043995	FLATHEAD LUTHERAN BIBLE CAMP
76LJ 43524 00	DUSTIN C RICHTER; LACY S RICHTER
76LJ 68858 00	DOUGLAS M GRAHAM; VICTORIA K GRAHAM; SHULTES, FLORA A TRUST
76LJ 23492 00	PEACEFUL COVE II LLC
76LJ 40979 00	GREGORY K HARPER
76LJ 30046502	JULIA M RICHARDSON
76LJ 76461 00	ARCEDIANO FAMILY TRUST
76LJ 85325 00	JUNIPER BAY INVESTMENT GROUP LLC
76LJ 30150579	DODGER LODGE LLC
76LJ 114075 00	COIT FAMILY TRUST
76LJ 30151429	DARCY A SCHULTZ; WESLEY JP SCHULTZ
76LJ 30151080	SKY AIR ENTERPRISES
76LJ 75392 00	LILIENTHAL, ROBERT C. AND JUDY A. REVOCABLE TRUST
76LJ 105293 00	CHARLES R ANDERSON; SHERI L ANDERSON
76LJ 54289 00	ANNE H KONTOKOSTA; CONSTANTINE KONTOKOSTA
76LJ 30119359	JANICE M MCDONALD; CURTIS K PETERSON
76LJ 54404 00	GERALD A IRETON
76LJ 54405 00	LANCE FAHRNEY; MELISSA FAHRNEY
76LJ 30048946	CANDACE M JOHNSON; KELLY M JOHNSON
76LJ 91078 00	DANIEL M MOLLOY; RHONDA L MOLLOY
76LJ 90177 00	CONNORS, PHILIP TRUST A
76LJ 30160902	MICHAEL K STAUB; SUSAN V STAUB
76LJ 86428 00	GREGORY S THOMPSON
76LJ 30000850	MARK W WESTON; SHANNON A WESTON
76LJ 30123967	DAVIS, WILLIAM DOUGLAS REVOCABLE TRUST
76LJ 30073094	JJC LLC
76LJ 30073149	TIM ENGLER; JENNIFER M FALZON; KYLE FALZON



76LJ 30103327	PRESBYTERY OF GLACIER
76LJ 78147 00	MCKERROW, JUSTIN AND AMY REVOCABLE LIVING TRUST
76LJ 98362 00	RUSSELL BARBER; CYPRESS PROPERTIES LLC; CHANNING J HARTELIUS
76LJ 30164669	KENNETH W ENSIGN; KRISTI J ENSIGN
76LJ 30116527	MIMNAUGH, MARY T TRUST
76LJ 30153902	ANNA HANDS; NICHOLAS T HANDS
76LJ 5961 00	ELIZABETH L BOARD; GARY A BOARD; TOM MCCRACKEN
76LJ 4813 00	ELIZABETH L BOARD; GARY A BOARD; TOM MCCRACKEN; CRAIG YATES
76LJ 40475 00	EIDSVOLD LUTHERAN CHURCH
76LJ 53678 00	SHAFER TRUST
76LJ 101296 00	PISK LLLP
76LJ 30108997	BNJC LLC
76LJ 95190 00	ROBERT J CHEROT; SANDRA J CHEROT
76LJ 111109 00	TERESA BURGHARDT
76LJ 86378 00	KRISTINE H CARLSON; THOMAS H CARLSON
76LJ 61945 00	ROD V LENZ
76LJ 87613 00	EISENLOHR 1980 TRUST
76LJ 30002477	YWAM MONTANA PROPERTIES LLC
76LJ 91117 00	MICHAEL D STEVENS
76LJ 26102 00	CARRIE ALT; CHRISTOPHER ALT; KENNETH F SKOOG
76LJ 111119 00	MONA N MCCANN; RICHARD E MCCANN
76LJ 16204 00	MICHAEL TISDALE
76LJ 75472 00	FREDRICK BROWN; TERRI BROWN
76LJ 30062853	WILLIAM F SHIFFMAN
76LJ 93175 00	COLEEN PERDUE; GERALD S PERDUE; STRAND FAMILY LIVING TRUST
76LJ 87654 00	KARI M HERIGSTAD MUSGROVE
76LJ 86361 00	STEPHENSON, H HOWARD TRUST
76LJ 30002133	EAGLE COVE 1 LLC; EAGLE COVE 2 LLC
76LJ 106880 00	MONTANA, STATE OF DEPT OF FISH WILDLIFE & PARKS
76LJ 89219 00	CHAUTAUQUA 3 ANNEXED PROPERTIES
76LJ 84910 00	ELIZABETH J SMITH; MATTHEW K SMITH; ROGER J SOMERVILLE
76LJ 30161514	BEVERLY WEHRMAN; MICHAEL WEHRMAN
76LJ 50689 00	EWERS FAMILY TRUST
76LJ 52755 00	MURPHY, MARY PAT REVOCABLE TRUST DTD 8/23/23
76LJ 30044451	MERLE R PHILLIPS
76LJ 3654 00	DAN MCNEESE; SHEILA K MCNEESE
76LJ 6350 00	BARBARA E BOOHER; ORA STOWE; RALPH C STOWE
76LJ 84241 00	CHADWICK, JOHN AND ANGELICA FAMILY REVOCABLE TRUST



76LJ 17263 00	REANNA P DUBOIS; WAYNE K DUBOIS; AKE HOEGBERG; JOHN J HOUCK; EDWARD TASKILA
76LJ 46809 00	FLATHEAD COUNTY PARKS & RECREATION
76LJ 30068894	LAKESIDE QRU INC
76LJ 30074667	PAXSON, MARLA J REVOCABLE TRUST
76LJ 30154292	PEACEFUL WATERS WATER ASSOCIATION
76LJ 4626 00	ANGEL BOE; DARRELL A BOE; ELLA THREE LLC
76LJ 30049336	ORA STOWE; RALPH C STOWE
76LJ 30111064	AMENDED LOT 45 BLK 4 HILLSIDE HOME WTR ASSOCIATION
76LJ 30070810	MONIKA B YAKUPCIN; STEPHEN A YAKUPCIN
76LJ 13583 00	BUCKLEY FAMILY TRUST
76LJ 50019 00	JACQUELINE R SMITH
76LJ 12422 00	DONALD L CLARIDGE; NAOMI K CLARIDGE; ENGDahl, DEBRA LYNN REVOCABLE TRUST; GARY L ERICKSON; ERICKSON, HAZEL C TRUST; ERICKSON, JAMES R TRUST; READ, CLEMENT AND VAUGHAN, SUSAN R REVOCABLE TRUST; MARY A ROSS-GOODNOUGH; RACHEL STEINDORF; TRAVIS STEINDORF
76LJ 54231 00	CATHERINE E GUSTAVSON; EMILY P MANTEL; STEVEN R MANTEL; JOYCE E TRANBERG; LEROY C TRANBERG; JANE WICKSTROM; LEE WICKSTROM
76LJ 24044 00	BJELLISON FAMILY TRUST; HURST FAMILY TRUST; GINA JOHNSON; RAND JOHNSON
76LJ 81565 00	DEEP BAY CENTER INC; DIVITA, FRANK G TRUST; STEVE SUPOLA
76LJ 30065600	JBV WATER COMPANY
76LJ 52704 00	KOESTNER FAMILY PARTNERSHIP; ARLENE D ROSS; BONNIE L ROSS; BRIAN M ROSS; MICHAEL A ROSS; SHANNON C ROSS; WRIGHT TRUST
76LJ 30109413	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 85692 00	CHARLES R ANDERSON; SHERI L ANDERSON
76LJ 94480 00	JEFFREY A JOBE
76LJ 80309 00	CHARLIE L TARPLEY; VON SCHLEDORN FAMILY REVOCABLE TRUST
76LJ 30046216	BEVERLY J SMITH; GORDON H SMITH
76LJ 17746 00	DAVID B FARRAR; SHERYL L SARTORI
76LJ 62037 00	IRIS A BUTLER
76LJ 114120 00	GARRY D SEAMAN; MICHAEL V SEAMAN
76LJ 22020 00	1035 LAKESIDE LLC
76LJ 52794 00	MARY A MACPHEAT; WILLIAM R MACPHEAT
76LJ 30110205	WINRICH, KURT & DEBRA FAMILY TRUST
76LJ 30041721	JACK E SAUER
76LJ 40255 00	ROXY PROPERTY LLC
76LJ 22736 00	GUY, JANET K TRUST



76LJ 30161052	54 LAKESIDE CREST DRIVE; 64 LAKESIDE CREST DRIVE
76LJ 59351 00	ELIZABETH L KLEINHASSER; TOBIAS B KLEINHASSER
76LJ 5514 00	LAKESIDE SCHOOL DISTRICT #30
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 35320 00	VARVARRA ADAMS; ADAMS FAMILY TRUST; MARY L HARRIS; WILLIAM H HARRIS; KATHERINE M HOPKINS; RONALD J HOPKINS; ISTHMUS LLC; LAKESIDE SUITES LLC; LESLEY MULCAHY; RUTH E PALMER; POINT CAROLINE MARINE INC; CLAUDIA R POTTS
76LJ 94536 00	PEACEFUL ORCHARDS WATER ASSN
76LJ 75437 00	LARSON, DONNA LIVING TRUST; LARSON, JEROME E TESTAMENTARY TRUST
76LJ 45117 00	ALLEN G BARRETT; PALMER BENSON; ALICE BLASDEL; KATHRYN M BRITTON; BONNIE R CAMPBELL; CLARK, ANNETTE N TRUST; DARYL DULLUM; GEORGE B KIMES; JOEL LAVERING; SUSAN LAVERING; MELISSA MOWER; DIANE RAMIREZ; ROSEFINE LLC; GARY SHAW; PAUL H SLEEPER; KATHLEEN L SLONAKER; ROBERT L SLONAKER
76LJ 30967 00	EMILY C MANLY; JUSTIN C MANLY; STEPHEN L TANNER; TANNER, JOAN B TESTAMENTARY TRUST
76LJ 30071619	PRESBYTERY OF GLACIER
76LJ 134831 00	PEACEFUL BAY OVERLOOK WATER ASSOC
76LJ 7506 00	HUGHES BAY CORP
76LJ 23049 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 14232 00	HILLSIDE HOMES HOMEOWNERS WATER ASSN
76LJ 50570 00	PEACEFUL BAY RESORT & CLUB HOMEOWNERS ASSOC
76LJ 40161 00	HUGHES BAY CORP
76LJ 80205 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30004162	OVERLOOK SUBDIVISION WATER USERS ASSOC
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 30112899	CHAUTAUQUA TERRACE HOMEOWNERS ASSN
76LJ 143865 00	YWAM MONTANA PROPERTIES LLC
76LJ 143864 00	YWAM MONTANA PROPERTIES LLC
76LJ 30007842	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 5494 00	LAKEVIEW PARK ESTATES HOME OWNERS ASSN
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT
76LJ 26729 00	TAMARACK WOODS HOMEOWNERS ASSOC
76LJ 30014843	REBECCA BARKER; WILLIAM BARKER
76LJ 30009221	KRISTINE H CARLSON; THOMAS H CARLSON
76LJ 30028899	ROGER W SIBLERUD



76LJ 5794 00	CYNTHIA L AGAMENONI; BLACKFORD FAMILY TRUST; BRUCE T HELMER
76LJ 30027308	TAMSIN R NORVELL
76LJ 30028523	CATHERINE REEVES
76LJ 11993 00	SCOTT H ALMDALE; KAREN T ARMDALE
76LJ 30018459	REBECCA BARKER; WILLIAM BARKER
76LJ 10939 00	LEE FAMILY TRUST; ERIKA WINKELBAUER; MATTHEW WINKELBAUER
76LJ 30016947	MCCAIN FAMILY TRUST
76LJ 30008339	DONALD L CLARIDGE; NAOMI K CLARIDGE; CHRISTY ERICKSON; READ, CLEMENT AND VAUGHAN, SUSAN R REVOCABLE TRUST
76LJ 30022750	DAVID E PETERSON; LINDA K PETERSON
76LJ 30023372	LAURA CROSS
76LJ 30027307	MICHAEL BOOM; SAVANNAH BOOM
76LJ 30012697	ALAN P DELEON; MARCELLA DELEON
76LJ 9628 00	BARBARA A FOSTER; DENNIS W FOSTER
76LJ 30018514	ASHCRAFT, CAMILLE M REVOCABLE TRUST
76LJ 30030289	DAVID L ALTIC
76LJ 30023475	PAMELA P RYAN
76LJ 6986 00	LLOYD WITHEY; VERONICA WITHEY
76LJ 30025360	SUSAN D SMITH
76LJ 30023741	MELISSA M ARMSTRONG; STEPHEN K ARMSTRONG
76LJ 104731 00	BRUNDIGE, EVA ANN NORVELL LIVING TRUST; EVART D NORVELL; JAMES WININGER; RONALD WININGER; SHEILA S WININGER
76LJ 30022268	ALICE V PATRICK
76LJ 30020353	BAIN, DEBRA L IRREVOCABLE TRUST
76LJ 30016777	PERRI E SLUDER
76LJ 30016776	PERRI E SLUDER
76LJ 30018504	PATRICIA ARMBRUSTER; WAYNE ARMBRUSTER
76LJ 30025751	JAMES D AGNEW
76LJ 12432 00	DAVID FETVEIT; MICHELLE FETVEIT
76LJ 12170 00	WATSON FAMILY REVOCABLE TRUST
76LJ 30007068	NYSTUEN FAMILY TRUST
76LJ 30007225	LARRY M BAER; MAUREEN E BAER
76LJ 30043457	JORDAN OWEN; WENDY OWEN
76LJ 30028908	TAL & PGL LLC
76LJ 30022878	WAITE, STEPHEN M TRUST
76LJ 30028439	CYPRESS PROPERTIES LLC
76LJ 30010612	BESSEY, OTTO A TRUST
76LJ 30016218	O NEIL PROPERTIES LLC
76LJ 30010316	TETACHUK FAMILY TRUST



76LJ 30027504	SHARON K KOCH
76LJ 30005626	JAMIE ANDERSON
76LJ 30026323	JESICA L SWANSON; NORSE A SWANSON
76LJ 30016516	HIMSL FAMILY LIVING TRUST
76LJ 30012036	PATRICK KENNEY; THOMAS KENNEY
76LJ 30017936	DAVID BENNETT; ELAINE BENNETT
76LJ 30010665	PALMER, ANDREA E QPRT NO 1; PALMER, ANDREA E QPRT NO 2
76LJ 30006726	EISENLOHR, JOHN AND LAURA REVOCABLE TRUST
76LJ 30025894	LAURIE A HANNA
76LJ 30007079	CAROLE A DRISCOLL; DANIEL J DRISCOLL
76LJ 30017106	REDFIELD LANE LLC
76LJ 30008737	JOHN J SAUCEDO
76LJ 30016182	KOEDDING TRUST
76LJ 30028605	ADAM S CRAVER; DANIELLE L CRAVER
76LJ 30041722	INGRUM FAMILY TRUST
76LJ 30022110	MAVIS THORNTON
76LJ 30016863	HIMSL-WOHLWEND MOTORS INC
76LJ 30011693	FLATHEAD LUTHERAN BIBLE CAMP
76LJ 30021095	STEPHEN L TANNER; TANNER, JOAN B TESTAMENTARY TRUST
76LJ 30029056	DOCTOR NO ENTERPRISES LLC
76LJ 9613 00	JUDITH M PETERS
76LJ 30004333	CODY PERIN
76LJ 30007254	ASHLEY BELL-WOLFE
76LJ 30029407	JORGENSEN, GARY AND CAROLYN REVOCABLE TRUST
76LJ 30030123	ANDREW W HARMON; CHRISTINA L HARMON
76LJ 30028859	PATRICIA K JONES; SAMUEL M JONES
76LJ 30012038	ENNIS, BRUCE L REVOCABLE TRUST
76LJ 30028947	ALLEN TRUST
76LJ 30117111	PEACEFUL BAY STABLES LLC
76LJ 4089 00	MONTANA, STATE OF DEPT OF FISH WILDLIFE & PARKS
76LJ 30015076	GEORGIA L WILD; LEE M WILD
76LJ 30011231	ROSTIS N TIMOSHCHUK; YULIYA N TIMOSHCHUK
76LJ 30020547	DANIEL D JOHNS
76LJ 30017169	STEPHEN G WEISS
76LJ 30020859	ALPHA ESTATES HOME OWNERS ASSOCIATION
76LJ 30028910	DAVID BOOTH
76LJ 30007076	MARILYN D GATZEMEIER
76LJ 30007224	BRUCE E SEMLER
76LJ 30007223	KYHL PFANKUCH; NICOLE M PFANKUCH
76LJ 30010595	WIGGIN FAMILY LLC
76LJ 30010814	DONALD C RUDIE



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Flathead County

76LJ 3772 00	22 HOLDINGS LLC
76LJ 30007074	KUHL, MARK J & MARCIE N REVOCABLE TRUST
76LJ 30016725	SEA ISLAND INVESTMENT TRUST



Appendix B: Groundwater Rights within the 1-foot Drawdown Contour



WRNUMBER	ALL_OWNERS	WELL DEPTH (ft)	STATIC WATER LEVEL (ft)	DRAWDOWN (FT)	Available Water Column (ft)
76LJ 17746 00	DAVID B FARRAR; SHERYL L SARTORI	280	269.0	2.4	8.6
76LJ 30226 00	JEAN AGATHER	142	120.0	3.9	18.1
76LJ 91048 00	SCOTT M BRUCE; NANCY E DOWNS	86	58.0	1.8	26.2
76LJ 72537 00	CARLSON, BRENT W TRUST	144	112.0	3.5	28.5
76LJ 6350 00	BARBARA E BOOHER; ORA STOWE; RALPH C STOWE	192	156.0	2.0	34.0
76LJ 30027504	SHARON K KOCH	84	38.0	3.0	43.0
76LJ 30046414	BLAIR FRACHE; JANET FRACHE	150	100.0	3.5	46.5
76LJ 50007 00	RODNEY OLSON; TAMARA OLSON; CODY OSTERDAY; HOLLY OSTERDAY	240	185.0	2.4	52.6
76LJ 30160657	JUDITH A FOUNTAIN	240	180.0	7.2	52.8
76LJ 90268 00	1523528 ALBERTA INC; HARRIS, CHRIS LEE & DEBRA KAY AB LIVING TRUST	85	29.0	3.1	52.9
76LJ 30108853	PALS CABINS AT LAKESIDE I LLC	127	69.0	3.4	54.6



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76LJ 30967 00	EMILY C MANLY; JUSTIN C MANLY; STEPHEN L TANNER; TANNER, JOAN B TESTAMENTAR Y TRUST	185	125.0	2.8	57.2
76LJ 30029056	DOCTOR NO ENTERPRISES LLC	125	64.0	3.6	57.4
76LJ 89235 00	GREGORY A GOODE	120	59.0	1.8	59.2
76LJ 101315 00	BEVERLY C PARDINI	179	115.0	1.9	62.1
76LJ 30102765	MICHAEL KOONTZ; PATRICIA KOONTZ	241	162.1	4.4	74.5
76LJ 16204 00	MICHAEL TISDALE	120	40.0	4.4	75.6
76LJ 30108852	PALS CABINS AT LAKESIDE I LLC	153	72.0	3.4	77.6
76LJ 30000766	SHELLI D ALT	180	93.0	4.5	82.5
76LJ 30006726	EISENLOHR, JOHN AND LAURA REVOCABLE TRUST	180	93.0	4.5	82.5
76LJ 66509 00	CAMERON G HAWORTH; LESLIE A HAWORTH	128	42.0	3.5	82.5
76LJ 3654 00	DAN MCNEESE; SHEILA K MCNEESE	254	163.0	2.1	88.9
76LJ 102537 00	JOHN G HARP	420	325.0	4.9	90.1
76LJ 30065950	PAUL M MABEN; ROBIN A MABEN	160	68.0	1.8	90.2



76LJ 99835 00	MADISON, KIM LIVING TRUST	124	30.0	1.8	92.2
76LJ 97310 00	BRADLEY CAIN	400	300.0	6.3	93.7
76LJ 30016725	SEA ISLAND INVESTMENT TRUST	194	96.0	4.3	93.7
76LJ 30018504	PATRICIA ARMBRUSTER; WAYNE ARMBRUSTER	220	123.0	1.9	95.1
76LJ 30011231	ROSTIS N TIMOSHCHUK; YULIYA N TIMOSHCHUK	150	51.0	3.6	95.4
76LJ 91117 00	MICHAEL D STEVENS	302	201.0	4.4	96.6
76LJ 30119320	GREGORY L BADEN; GWEN K BADEN	124	19.0	4.3	100.7
76LJ 30045008	ROBBIE L HAPNER	340	232.0	6.8	101.2
76LJ 86368 00	JAMES J BILLMAYER; VICKI D BILLMAYER	143	37.0	4.6	101.4
76LJ 97284 00	KAREN SWISHER	145	40.0	1.8	103.2
76LJ 64234 00	BEARS DEN TRUST; ROSTIS N TIMOSHCHUK; YULIYA N TIMOSHCHUK	125	18.0	3.4	103.6
76LJ 30000850	MARK W WESTON; SHANNON A WESTON	262	153.0	4.5	104.5
76LJ 30065532	BAIRD FAMILY REVOCABLE TRUST	175	65.0	4.5	105.5
76LJ 30002133	EAGLE COVE 1 LLC; EAGLE COVE 2 LLC	125	16.0	2.8	106.2



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76LJ 30016516	HIMSL FAMILY LIVING TRUST	143	35.0	1.8	106.2
76LJ 30154572	OLSON, BERNARD T AND MARILYN A FAMILY TRUST	180	72.0	1.8	106.2
76LJ 30049476	BJORNAR SOLLIE; PATRICIA A SOLLIE	260	151.0	2.3	106.7
76LJ 58665 00	NICKELS FAMILY TRUST	145	34.0	3.4	107.6
76LJ 30155518	ATKINSON TRUST	180	69.0	2.7	108.3
76LJ 97271 00	CJS ENTERPRISES OF MONTANA LLC	120	9.0	1.9	109.1
76LJ 109776 00	IRENE HUGIE; JOHN R HUGIE	401	282.0	8.2	110.8
76LJ 30103222	LAURA KELLER-WOLFF; RANDY WOLFF	480	362.0	5.7	112.3
76LJ 30016863	HIMSL-WOHLWEND MOTORS INC	121	6.0	1.8	113.2
76LJ 30163466	RAVE LIVING TRUST	480	359.0	5.8	115.2
76LJ 82554 00	APPLEWAY SUBDIVISION WATER USERS ASSN	340	220.0	4.4	115.6
76LJ 43524 00	DUSTIN C RICHTER; LACY S RICHTER	340	220.0	4.4	115.6
76LJ 22607 00	PRESBYTERY OF GLACIER	277	159.0	2.4	115.6
76LJ 90994 00	APPLEWAY SUBDIVISION WATER USERS ASSN	340	220.0	4.3	115.7



76LJ 30000936	CARL COVEY; PAULA COVEY	342	217.0	8.2	116.8
76LJ 30069780	CJSR ENTERPRISES OF MONTANA LLC	186	67.0	2.0	117.0
76LJ 90177 00	CONNORS, PHILIP TRUST A	160	41.0	1.9	117.1
76LJ 30025751	JAMES D AGNEW	280	155.0	7.5	117.5
76LJ 30025894	LAURIE A HANNA	280	155.0	7.5	117.5
76LJ 12432 00	DAVID FETVEIT; MICHELLE FETVEIT	300	175.0	5.0	120.0
76LJ 75008 00	CHARLENE APPEL	220	93.0	6.6	120.4
76LJ 30002118	AUBRIE A KALLENBERGE R; DANIEL R KALLENBERGE R	240	115.0	3.7	121.3
76LJ 30010814	DONALD C RUDIE	424	299.0	3.3	121.7
76LJ 106799 00	SCHOCK FAMILY TRUST	150	24.0	4.3	121.7
76LJ 113472 00	DONALD J ANDERSON; SHERI L ANDERSON; DONALD L ERICKSON; DOROTHY L ERICKSON	225	99.0	3.9	122.1
76LJ 30049336	ORA STOWE; RALPH C STOWE	303	178.0	2.1	122.9
76LJ 30016218	O NEIL PROPERTIES LLC	204	77.0	3.9	123.1
76LJ 27299 00	JUDITH M PETERS	256	128.0	4.0	124.0



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76LJ 30021095	STEPHEN L TANNER; TANNER, JOAN B TESTAMENTAR Y TRUST	227	100.0	2.8	124.2
76LJ 30111684	DOUGLAS D VAN OSTEN; JANETTE R VAN OSTEN	362	234.0	2.8	125.2
76LJ 62037 00	IRIS A BUTLER	184	55.0	3.6	125.4
76LJ 30028605	ADAM S CRAVER; DANIELLE L CRAVER	320	187.0	6.8	126.2
76LJ 30071619	PRESBYTERY OF GLACIER	260	131.0	2.2	126.8
76LJ 102635 00	MARILYN D GATZEMEIER	174	40.0	6.6	127.4
76LJ 30016182	KOEDDING TRUST	263	132.0	2.1	128.9
76LJ 30043457	JORDAN OWEN; WENDY OWEN	164	29.0	3.5	131.5
76LJ 30103327	PRESBYTERY OF GLACIER	264	129.0	2.2	132.8
76LJ 30017169	STEPHEN G WEISS	180	43.0	3.9	133.1
76LJ 23492 00	PEACEFUL COVE II LLC	223	84.0	5.0	134.0
76LJ 84910 00	ELIZABETH J SMITH; MATTHEW K SMITH; ROGER J SOMERVILLE	180	41.0	3.4	135.6
76LJ 91078 00	DANIEL M MOLLOY; RHONDA L MOLLOY	204	64.0	3.9	136.1
76LJ 30028966	CORINNA D KEELER; RYAN P KEELER	302	159.0	4.7	138.3
76LJ 112728 00	GARY R FLADSTOL	163	21.0	3.2	138.8



76LJ 30068894	LAKESIDE QRU INC	158	16.0	2.7	139.3
76LJ 30017936	DAVID BENNETT; ELAINE BENNETT	362	218.0	3.9	140.1
76LJ 215039 00	BEVERLY A GRIFFIN; RODNEY J GRIFFIN	234	90.0	2.7	141.3
76LJ 97237 00	ANDERSON FAMILY TRUST	234	90.0	2.0	142.0
76LJ 30069328	ASHWOOD LIVING TRUST	453	302.0	7.3	143.7
76LJ 30157917	SCOTT W HOOPER; SUSAN R HOOPER	623	472.0	6.9	144.1
76LJ 46809 00	FLATHEAD COUNTY PARKS & RECREATION	196	47.0	3.8	145.2
76LJ 30043995	FLATHEAD LUTHERAN BIBLE CAMP	190	40.0	3.5	146.5
76LJ 30124839	BRET BAILEY; LAUREN BAILEY	450	297.0	5.3	147.7
76LJ 30004333	CODY PERIN	360	210.0	1.7	148.3
76LJ 30112827	SCOTT C HELD	322	165.0	7.4	149.6
76LJ 30159273	BENNETT REVOCABLE TRUST	409	255.0	3.9	150.1
76LJ 63104 00	TED KNOTT	187	32.0	4.1	150.9
76LJ 30071526	RH 2012 MANAGEMENT TRUST	424	267.0	5.9	151.1
76LJ 30150737	RUBLY, WILLIAM AND KIMBERLY LIVING TRUST	229	72.0	5.6	151.4
76LJ 30046692	ANGELA M YOUNG	765	606.0	6.9	152.1
76LJ 97285 00	FLATHEAD	224	67.0	3.7	153.3



	LUTHERAN BIBLE CAMP				
76LJ 113416 00	SKY RESERVE LLC	645	488.0	3.3	153.7
76LJ 30071907	CROMER FAMILY REVOCABLE TRUST; CROMER, DIANE M TRUST	261	104.0	3.2	153.8
76LJ 30118125	LADEINE THOMPSON; RAYMON F THOMPSON	182	23.0	4.3	154.7
76LJ 30118126	CAVIGLIA FAMILY REVOCABLE TRUST	182	23.0	4.3	154.7
76LJ 85747 00	EDD MGMT ANGEL POINT LLC	184	26.0	3.2	154.8
76LJ 30107976	HEATHIER CHAMBERLAIN ; SONYA HYMAS; WILLIAM R TANNER	200	38.0	5.4	156.6
76LJ 30107910	MICHELE REYES	200	38.0	5.4	156.6
76LJ 30047368	DANEL FRIELING	221	59.0	4.3	157.7
76LJ 30146609	ALAN BAHNMILLER; CINDY BAHNMILLER	321	153.8	7.2	160.0
76LJ 30112899	CHAUTAUQUA TERRACE HOMEOWNERS ASSN	291	126.0	4.3	160.7
76LJ 89219 00	CHAUTAUQUA 3 ANNEXED PROPERTIES	291	126.0	4.3	160.7



76LJ 81565 00	DEEP BAY CENTER INC; DIVITA, FRANK G TRUST; STEVE SUPOLA	315	148.0	3.1	163.9
76LJ 104000 00	JOSEPH P EVE; MELANIE F VANKOTEN- EVE	200	32.0	3.9	164.1
76LJ 82503 00	JOSEPH P EVE; MELANIE F VANKOTEN- EVE	200	32.0	3.9	164.1
76LJ 85701 00	HOEFLE, KRISTIN M REVOCABLE TRUST	184	16.0	3.9	164.1
76LJ 30008737	JOHN J SAUCEDO	320	150.0	2.1	167.9
76LJ 97280 00	DARLENE NARDI; STEVE NARDI	225	53.0	3.2	168.8
76LJ 30008082	JUDY L SHIFFMAN	339	161.0	6.3	171.7
76LJ 111175 00	BARBARA D WYNN; HOWARD L WYNN	274	95.0	4.1	174.9
76LJ 24733 00	KREPS, BRIEN D & CAROLYN B JOINT REVOCABLE TRUST	360	180.0	4.3	175.7
76LJ 40979 00	GREGORY K HARPER	207	26.0	4.7	176.3
76LJ 30116527	MIMNAUGH, MARY T TRUST	244	60.0	2.7	181.3
76LJ 30026323	JESICA L SWANSON; NORSE A SWANSON	385	195.0	7.1	182.9
76LJ 30047533	STEPHANIE M SEHER	223	35.0	3.9	184.1
76LJ 51679 00	HEIDI L	224	35.0	3.6	185.4



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	LOWELL; ALISDAIR JM MADEN				
76LJ 71797 00	CAROLINE CASTEEL; WILLARD A OFTEDAL	221	31.0	3.6	186.4
76LJ 15248 00	DEBORAH P HIRD	245	55.0	3.4	186.6
76LJ 30126836	WHISPERING TRAILS LLC	265	75.0	3.3	186.7
76LJ 30049538	JASON GHERA	220	28.0	4.7	187.3
76LJ 30011693	FLATHEAD LUTHERAN BIBLE CAMP	202	10.0	4.4	187.6
76LJ 30012036	PATRICK KENNEY; THOMAS KENNEY	202	10.0	4.3	187.7
76LJ 30043039	JOHN CAHILL; MARIA CAHILL	505	310.0	4.4	190.6
76LJ 30121906	MARK R BEVERIDGE	440	245.0	4.4	190.6
76LJ 30029407	JORGENSEN, GARY AND CAROLYN REVOCABLE TRUST	505	310.0	4.3	190.7
76LJ 30004162	OVERLOOK SUBDIVISION WATER USERS ASSOC	505	309.0	4.5	191.5
76LJ 30010657	PALMER, ANDREA E REVOCABLE TRUST	230	34.0	3.7	192.3
76LJ 59384 00	BLOMGREN FAMILY TRUST	200	3.0	2.8	194.2
76LJ 30007254	ASHLEY BELL- WOLFE	519	317.0	4.9	197.1
76LJ 30116375	RAYMOND D MERRILL; SONJA M MERRILL	519	317.0	4.9	197.1



76LJ 30043995	FLATHEAD LUTHERAN BIBLE CAMP	247	40.0	3.5	203.5
76LJ 111119 00	MONA N MCCANN; RICHARD E MCCANN	260	50.0	4.4	205.6
76LJ 30041722	INGRUM FAMILY TRUST	700	486.0	7.9	206.1
76LJ 66588 00	DONALD E WOOD; DOROTHEA R WOOD	340	129.0	2.4	208.6
76LJ 82368 00	STEPHANIE K GIRARDOT; TRAVIS C PINE	244	30.0	4.1	209.9
76LJ 30030123	ANDREW W HARMON; CHRISTINA L HARMON	240	22.0	5.2	212.8
76LJ 77445 00	BLAKE BRATT; SHILPA BRATT; DANIEL D MARGENAU; JENNIFER L MARGENAU	260	42.0	5.1	212.9
76LJ 52704 00	KOESTNER FAMILY PARTNERSHIP; ARLENE D ROSS; BONNIE L ROSS; BRIAN M ROSS; MICHAEL A ROSS; SHANNON C ROSS; WRIGHT TRUST	287	68.0	3.1	215.9
76LJ 30161052	54 LAKESIDE CREST DRIVE; 64 LAKESIDE CREST DRIVE	400	182.0	1.8	216.2
76LJ 108191 00	GARY BEUTLER;	262	40.0	3.9	218.1



	LELA BEUTLER; NELSON, PETER & CAROL FAMILY TRUST				
76LJ 30012038	ENNIS, BRUCE L REVOCABLE TRUST	264	42.0	3.7	218.3
76LJ 97138 00	CAROLE S HENDRICKSON ; KYLE HENDRICKSON ; ADAM P ORMISTON; CHERYL A ORMISTON	292	70.0	3.6	218.4
76LJ 30028908	TAL & PGL LLC	660	430.0	11.4	218.6
76LJ 30028947	ALLEN TRUST	295	68.0	6.0	221.0
76LJ 84213 00	SCOTT F GALLOWAY	361	136.0	3.9	221.1
76LJ 31032 00	II J KYHL	295	68.0	5.9	221.1
76LJ 91101 00	KEITH J RICHARDS; MARGARET L RICHARDS	361	136.0	3.9	221.1
76LJ 30010316	TETACHUK FAMILY TRUST	345	120.0	3.7	221.3
76LJ 30028910	DAVID BOOTH	660	430.0	7.9	222.1
76LJ 30028859	PATRICIA K JONES; SAMUEL M JONES	260	33.0	4.0	223.0
76LJ 30151429	DARCY A SCHULTZ; WESLEY JP SCHULTZ	405	178.0	2.3	224.7
76LJ 30150528	SHRR2 LLC	781	547.2	6.9	226.9
76LJ 30158039	WINTER FAMILY TRUST	980	735.0	13.4	231.6
76LJ 30149515	KELLY B MCDONALD; LESLIE D MCDONALD	341	101.4	6.1	233.5



76LJ 101265 00	JOHN E DE CROIX; DE CROIX, DEBORAH L REVOCABLE LIVING TRUST	562	321.0	5.3	235.7
76LJ 30147909	LAKESIDE COUNTY WATER AND SEWER DISTRICT	323	84.0	3.1	235.9
76LJ 30074667	PAXSON, MARLA J REVOCABLE TRUST	1006	765.0	3.6	237.4
76LJ 75472 00	FREDRICK BROWN; TERRI BROWN	420	180.0	2.3	237.7
76LJ 72089 00	KENNETH L STONER; KENNETH L STONER; STEPHANIE A STONER	486	245.0	3.3	237.7
76LJ 4626 00	ANGEL BOE; DARRELL A BOE; ELLA THREE LLC	535	294.0	2.8	238.2
76LJ 30045071	STEVE WAJDIC	443	201.0	2.3	239.7
76LJ 30163751	ERIN OLSEN; RYAN N OLSEN	880	630.0	6.0	244.0
76LJ 30120362	LARRY G HAWTHORNE	488	238.0	4.6	245.4
76LJ 30004533	JUST GETTING STARTED LLC	280	30.0	3.7	246.3
76LJ 30158658	CRAIG L BLAIR	965	710.0	7.5	247.5
76LJ 3601 00	LEAH E CLOTHIER	382	132.0	2.4	247.6
76LJ 98371 00	169 PEACEFUL LLC	280	25.0	5.1	249.9
76LJ 65019 00	ENGDAHL FAMILY LLC	283	26.0	3.8	253.2
76LJ 30050346	SKYHOUSE COVENANT	788	528.0	5.9	254.1



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	GROUP LLC				
76LJ 30161850	PALMER, ANDREA E REVOCABLE TRUST	300	40.0	3.9	256.1
76LJ 43883 00	KIMBERLY R RING; SCOTT T RING	360	100.0	3.7	256.3
76LJ 81490 00	WEEKS FAMILY TRUST DTD JUNE 2022	284	26.0	1.6	256.4
76LJ 86428 00	GREGORY S THOMPSON	409	147.0	5.2	256.8
76LJ 30161296	MARIA HARRINGTON; TODD HARRINGTON	400	135.0	6.8	258.2
76LJ 50006 00	COLLEEN MCGILLIS; NORMAN MCGILLIS	264	1.0	4.2	258.8
76LJ 22020 00	1035 LAKESIDE LLC	300	31.0	4.6	264.4
76LJ 30051925	BOZZO, ANTHONY AND VALERIE FAMILY TRUST	343	72.0	5.2	265.8
76LJ 93078 00	MICHAEL D MILLER; PAMELA LC MILLER	445	174.0	4.3	266.7
76LJ 87019 00	VIGNERE LIVING TRUST	450	178.0	3.8	268.2
76LJ 89264 00	ROBERT I BARBER	450	178.0	3.8	268.2
76LJ 30002814	KABIRI, CAROLINE KITCHELL 2012 TRUST NO 1	450	178.0	3.8	268.2
76LJ 64961 00	KATHRYN SCHINDELAR	370	92.0	4.6	273.4
76LJ 117754 00	DOUGLAS LESSARD; PATTY F	403	122.0	6.8	274.2



	LESSARD				
76LJ 30005626	JAMIE ANDERSON	504	222.0	6.2	275.8
76LJ 22844 00	GWENDOLYN L ANDERSON; LORANCE ANDERSON	320	40.0	2.5	277.5
76LJ 30044427	ROBINSON, LOUISE TRUST	320	40.0	1.8	278.2
76LJ 59351 00	ELIZABETH L KLEINHASSER; TOBIAS B KLEINHASSER	479	193.0	7.1	278.9
76LJ 47152 00	MARK S CONNELL; NANCY JO CONNELL	343	60.0	3.9	279.1
76LJ 30043668	HEATH FAMILY REVOCABLE TRUST DATED 07/25/2019	347	58.0	5.1	283.9
76LJ 30015076	GEORGIA L WILD; LEE M WILD	462	169.0	4.5	288.5
76LJ 30154861	CHRISTINE M KLEINSASSER; GARY A KLEINSASSER	340	42.0	5.6	292.4
76LJ 30147909	LAKESIDE COUNTY WATER AND SEWER DISTRICT	612	314.0	3.0	295.0
76LJ 52692 00	CHRESTEN M KNAFF; TIFFANY N KNAFF	304	2.0	5.0	297.0
76LJ 30164669	KENNETH W ENSIGN; KRISTI J ENSIGN	422	115.4	4.0	302.6
76LJ 30148972	ALICIA LARA; THEODORE	460	148.0	7.1	304.9



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	LARA				
76LJ 30123750	WATERS, JOE N ROY & DEBRA A WATERS REVOCABLE TRUST	460	148.0	7.1	304.9
76LJ 12170 00	WATSON FAMILY REVOCABLE TRUST	325	12.0	5.3	307.7
76LJ 50689 00	EWERS FAMILY TRUST	495	180.0	3.6	311.4
76LJ 64964 00	2014 HERMES MANAGEMENT TRUST	725	408.0	5.2	311.8
76LJ 30149203	NIELSEN FAMILY TRUST	345	27.0	3.9	314.1
76LJ 30153902	ANNA HANDS; NICHOLAS T HANDS	370	49.0	6.0	315.0
76LJ 62001 00	KATHLEEN A ANTUNA; PAUL K ANTUNA	441	120.0	4.0	317.0
76LJ 37181 00	BONNIE L RIEDEL	441	120.0	4.0	317.0
76LJ 4089 00	MONTANA, STATE OF DEPT OF FISH WILDLIFE & PARKS	350	30.0	1.8	318.2
76LJ 114101 00	SKY MEADOWS LLC	769	445.0	3.0	321.0
76LJ 94536 00	PEACEFUL ORCHARDS WATER ASSN	378	48.0	5.4	324.6
76LJ 26729 00	TAMARACK WOODS HOMEOWNERS ASSOC	618	278.0	4.4	335.6
76LJ 3772 00	22 HOLDINGS LLC	390	46.0	3.7	340.3
76LJ 84241 00	CHADWICK, JOHN AND	605	259.0	4.8	341.2



	ANGELICA FAMILY REVOCABLE TRUST				
76LJ 30066890	CHRISTINE DOLAN; ERIN M DOLAN; JON A DOLAN	624	280.0	2.6	341.4
76LJ 30010612	BESSEY, OTTO A TRUST	409	58.0	4.4	346.6
76LJ 30010595	WIGGIN FAMILY LLC	409	58.0	4.1	346.9
76LJ 53678 00	SHAFFER TRUST	412	58.0	3.9	350.1
76LJ 30147909	LAKESIDE COUNTY WATER AND SEWER DISTRICT	581	217.0	2.9	361.1
76LJ 30046771	WRIGHT TRUST	445	80.0	3.2	361.8
76LJ 69726 00	CDN LAKESIDE PROPERTIES LLC	389	23.0	3.9	362.1
76LJ 30008332	MIKAEL R BORJESSON; PATRICIA M BORJESSON	546	181.0	2.1	362.9
76LJ 30163322	AARON TALLY; TYRA TALLY	1200	827.0	10.0	363.0
76LJ 26729 00	TAMARACK WOODS HOMEOWNERS ASSOC	597	220.0	5.6	371.4
76LJ 30050349	JASON GHERA	465	65.0	4.7	395.3
76LJ 30065465	TRISTELL VU	450	33.0	5.8	411.2
76LJ 26729 00	TAMARACK WOODS HOMEOWNERS ASSOC	700	276.0	5.6	418.4
76LJ 30020547	DANIEL D JOHNS	460	27.0	3.9	429.1
76LJ 106728 00	JANCE M PHILLIPS;	825	380.0	4.8	440.2



	MISTY R PHILLIPS				
76LJ 30154292	PEACEFUL WATERS WATER ASSOCIATION	520	31.0	5.8	483.2
76LJ 30066197	BRITTON, LESLIE D TRUST; JOHN C DRESCHER; KEVIN B DRESCHER; MICHAEL P DRESCHER; DRESCHER FAMILY TRUST; DRESCHER SURVIVORS TRUST	503	9.0	4.3	489.7
76LJ 70110 00	BRITTON, LESLIE D TRUST; JOHN C DRESCHER; KEVIN B DRESCHER; MICHAEL P DRESCHER; DRESCHER FAMILY TRUST; DRESCHER SURVIVORS TRUST	503	9.0	4.3	489.7
76LJ 51685 00	JUDY L SALOMSON	709	211.0	6.1	491.9
76LJ 30062853	WILLIAM F SHIFFMAN	709	211.0	6.1	491.9
76LJ 86361 00	STEPHENSON, H HOWARD TRUST	546	40.0	5.3	500.7
76LJ 50570 00	PEACEFUL BAY RESORT & CLUB	560	47.0	4.8	508.2



	HOMEOWNERS ASSOC				
76LJ 76461 00	ARCEDIANO FAMILY TRUST	530	5.0	3.1	521.9
76LJ 114075 00	COIT FAMILY TRUST	563	33.0	4.6	525.4
76LJ 30010665	PALMER, ANDREA E QPRT NO 1; PALMER, ANDREA E QPRT NO 2	582	30.0	3.7	548.3
76LJ 40161 00	HUGHES BAY CORP	676	108.0	2.8	565.2
76LJ 72073 00	527 CONRAD POINT DRIVE LLC	680	30.0	4.3	645.7
76LJ 30111508	HAND, RODWICK REVOCABLE TRUST	127		4.1	NA
76LJ 5514 00	LAKESIDE SCHOOL DISTRICT #30	157		3.0	NA
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT	172		2.6	NA
76LJ 98362 00	RUSSELL BARBER; CYPRESS PROPERTIES LLC; CHANNING J HARTELIUS	190		5.1	NA
76LJ 30005984	KATHY A POLEJEWSKI	190		7.2	NA
76LJ 30070536	YWAM MISSION BUILDERS INC	275		4.4	NA
76LJ 129007 00	LAKESIDE COUNTY WATER AND	323		3.1	NA



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	SEWER DISTRICT				
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT	581		2.9	NA
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT	612		3.0	NA
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT	755		2.6	NA
76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.0	NA
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 30160370	ANTHONY L SORENTINO; LORELEI R SORENTINO			7.0	NA
76LJ 30007068	NYSTUEN FAMILY TRUST			6.6	NA
76LJ 30007225	LARRY M BAER; MAUREEN E BAER			6.6	NA
76LJ 87613 00	EISENLOHR 1980 TRUST			2.6	NA
76LJ 111113 00	SAUER, ANNE H FAMILY TRUST			3.5	NA
76LJ 30048946	CANDACE M JOHNSON;			3.4	NA



	KELLY M JOHNSON				
76LJ 30022878	WAITE, STEPHEN M TRUST			5.6	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 129007 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 30028439	CYPRESS PROPERTIES LLC			7.2	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 30002477	YWAM MONTANA PROPERTIES LLC			4.4	NA
76LJ 30162734	DEBORAH S DAVIS; GREGG			8.4	NA



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	E DAVIS				
76LJ 143865 00	YWAM MONTANA PROPERTIES LLC			4.1	NA
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.0	NA
76LJ 143864 00	YWAM MONTANA PROPERTIES LLC			3.7	NA
76LJ 43014 00	POLING VIDA N REVOCABLE TRUST			2.0	NA
76LJ 50811 00	DARCY G LARD			3.4	NA
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 30125381	EAVES LIVING TRUST			3.9	NA
76LJ 30160902	MICHAEL K STAUB; SUSAN V STAUB			7.1	NA
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA



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76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 30007079	CAROLE A DRISCOLL; DANIEL J DRISCOLL			6.6	NA
76LJ 30017106	REDFIELD LANE LLC			3.9	NA
76LJ 7506 00	HUGHES BAY CORP			3.1	NA
76LJ 26102 00	CARRIE ALT; CHRISTOPHER ALT; KENNETH F SKOOG			4.5	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.0	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.0	NA
76LJ 9256 00	LAKESIDE COUNTY			3.0	NA



	WATER AND SEWER DISTRICT				
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 30154707	MATTHEW D CANTONI			6.6	NA
76LJ 30022110	MAVIS THORNTON			7.0	NA
76LJ 39825 00	MOODYS REAL ESTATE LTD			3.2	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 30163659	L & M REVOCABLE TRUST			1.8	NA
76LJ 30160877	WILDERNESS LAND HOLDINGS LLC			1.8	NA
76LJ 46796 00	HAMM FAMILY TRUST			2.8	NA
76LJ 30163101	CARTER ROSE DESIGN DEVELOPMEN T LLC			3.8	NA
76LJ 40352 00	R & R DEVELOPMEN T CORP			3.2	NA
76LJ 8314 00	CHAUTAUQUA TERRACE HOMEOWNERS ASSN			4.3	NA
76LJ 60235 00	ANGEL POINT			4.5	NA



	PRESERVE LLC				
76LJ 30043362	BRITTNEY BRATTON; DEREK BRATTON			5.3	NA
76LJ 30063422	KLAUSNER FAMILY TRUST			4.0	NA
76LJ 9613 00	JUDITH M PETERS			4.0	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 30062687	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 30041721	JACK E SAUER			7.9	NA
76LJ 134831 00	PEACEFUL BAY OVERLOOK WATER ASSOC			5.7	NA
76LJ 30114441	STIMPSON, JAIME KC REVOCABLE TRUST; STIMPSON, WILLIAM R REVOCABLE TRUST			4.8	NA
76LJ 30117111	PEACEFUL BAY STABLES			6.3	NA



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	LLC				
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 146955 00	KOELLER FAMILY TRUST			3.4	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.6	NA
76LJ 103956 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 9256 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 61905 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.1	NA
76LJ 30020859	ALPHA ESTATES HOME OWNERS ASSOCIATION			4.1	NA
76LJ 30160702	BLAKE BRATT; SHILPA BRATT			5.1	NA
76LJ 30007076	MARILYN D GATZEMEIER			6.6	NA
76LJ 30007224	BRUCE E SEMLER			6.6	NA
76LJ 30007223	KYHL PFANKUCH; NICOLE M PFANKUCH			6.6	NA
76LJ 103956 00	LAKESIDE			2.6	NA



	COUNTY WATER AND SEWER DISTRICT				
76LJ 68858 00	DOUGLAS M GRAHAM; VICTORIA K GRAHAM; SHULTES, FLORA A TRUST			4.6	NA
76LJ 30123967	DAVIS, WILLIAM DOUGLAS REVOCABLE TRUST			3.9	NA
76LJ 4527 00	KENNETH F SKOOG; CHRISTI L SMALL			4.5	NA
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			3.0	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 105373 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 129006 00	LAKESIDE COUNTY WATER AND SEWER DISTRICT			2.9	NA
76LJ 40983 00	22 HOLDINGS LLC			3.6	NA
76LJ 40255 00	ROXY PROPERTY LLC			4.3	NA



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76LJ 30007074	KUHL, MARK J & MARCIE N REVOCABLE TRUST			6.6	NA
76LJ 114566 00	64 LAKESIDE CREST DRIVE			1.8	NA
76LJ 30151749	ROBINSON, DANA STEVEN LIVING TRUST; ROBINSON, LINDA CONSTANCE LIVING TRUST			4.4	NA



Groundwater Permit Technical Analyses Report – Part B

Department of Natural Resources and Conservation (DNRC or Department)

Water Resources Division

Prepared by: Kristal Kiel, Water Resource Specialist, Kalispell Regional Office

Application No.	76LJ 30165067	Proposed Points of Diversion	<u>POD 1:</u> SESWSE S30 T26N R20W <u>POD 2:</u> NESWSE S30 T26N R20W
Applicant	Lakeside County Water and Sewer District		

Overview

This report is Part B of a two-part publication which analyzes data submitted by the Applicant in support of the above-mentioned water right application. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-311, Montana Code Annotated (MCA).

This Groundwater Permit Technical Analyses Report – Part B contains the following sections:

Overview	1
Variances	2
1.0 Application Details	2
2.0 Availability Analysis of Depleted Surface Waters	2
2.1 Source Description- Flathead Lake	2
2.1.1 Means & Method of Estimation	2
2.1.2 Monthly Flow Rate and Volume	3
3.0 Area of Potential Impact Analysis of Depleted Surface Water	5
Review	5
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Appendix A: Flathead Lake Existing Water Rights: Flathead Lake Inlet to USGS Gage # 12372000	6



Variances

A variance from the requirements found in ARM 36.12.1702(3)(a) to constant pumping rate was granted from the Kalispell Regional Office because the aquifer data submitted for PWS wells #1 & #2 provides enough data to support aquifer property determinations and analysis of criteria. Additionally, a variance from the requirements found in ARM 36.12.1902(3)(g) to monitoring of background groundwater levels was granted from the Kalispell Regional Office because the observation well drawdown data showed a consistent drawdown response as the production well, and therefore any background level trends did not appear to impact the aquifer test including drawdown or recovery data. Both variances were granted on December 31, 2024.

1.0 Application Details

The Applicant proposes to divert water from January 1st to December 31st from two groundwater wells at a rate of 430 gallons per minute (GPM). 123.36 acre-feet per year (AF/year) of water would be used between January 1st and December 31st for multiple domestic and commercial purposes on Section 25 of Township 26N Range 21W, Sections 30 & 29 of Township 26N Range 20W, Flathead County, Montana. 126.06 AF/year of water would be used between April 18th to October 13th for lawn & garden irrigation on Section 25 of Township 26N Range 21W, Sections 19, 30 & 29 of Township 26N Range 20W, Flathead County, Montana. The total proposed diverted volume is 249.42 AF annually.

2.1 Source Description- Flathead Lake

Depleted Source of Water: Flathead River (Flathead Lake)

Depleted Source Type: Lake

Location of Depletions: Flathead Lake from the lake inlet down to USGS Gaging Station # 12372000 near Polson, MT.

2.1.1 Means & Method of Estimation

Gage Name: Flathead River near Polson, MT

Gage Number: United States Geological Survey (USGS) # 12372000

Period of Record: October 1938- September 2024

Why this gage is considered an appropriate data source:

USGS gage # 12372000 marks the downstream extent of the depleted reach of Flathead Lake. The date range used includes the entire period of record for this gage.



Method of Estimation Used:

The median of the mean monthly flow rate and volume will be calculated from gage data.

Why this method is considered appropriate:

On a broad scale, water flows north to south in Flathead Lake, with the inlet at the juncture of the Flathead River on the north shoreline of the Lake, and outlet at the Seli's Ksanka Qlispe' Dam on the south shoreline of the Lake where the Flathead River resumes its course south. The USGS Gage # 12372000 exists 0.6 miles downstream from the dam, measuring flow and volume of water leaving the Lake. As flow through Flathead Lake can be quantified with existing gage data, physical availability of water in the Lake will be calculated via the method for perennial streams, consistent with determination requirements per ARM 36.12.1702 (1)(a) and the DNRC Technical Memorandum: "*Physical Availability of Surface Water with Gage Data*," dated November 1, 2019.

2.1.2 Monthly Flow Rate and Volume

Methodology:

Physical availability of Flathead Lake will be quantified monthly. The DNRC used the method below to quantify physically available monthly flow rates and volumes in the depleted reach during the period of surface water depletion:

1. The Department calculated median of the mean monthly flow rates in cubic feet per second (CFS) for Flathead Lake using USGS Gage # 12372000 records for each month of the year (**Table 1**, column B). Those flow rates were then converted to monthly volumes in acre-feet (AF) (**Table 1**, column C) using the following equation found on the DNRC Water Calculation Guide (formerly DNRC Form 615):

$$\text{median of the mean monthly flow (CFS)} * 1.98 \text{ (AF/day/CFS)} * \# \text{ days per month} = \text{AF/month}$$

2. The Department calculated the monthly flow rates appropriated by existing users upstream of the gage on the source (**Table 1**, column D) by:
 - a. Generating a list of existing active or severed (divided) water rights from the Flathead Lake inlet to USGS Gage # 12372000 (this list is included in Appendix A);
 - b. Calculating flow rate in CFS for all water rights where flow in CFS is not listed on the water right from known flow in GPM or from known volume using the equations below:

$$\text{Flow Rate (CFS)} = \frac{\text{Known Flow Rate (GPM)}}{448.8 \text{ GPM/1 CFS}}$$

$$\text{Flow Rate (CFS)} = \text{Known Volume (AF)} * 0.0014 \text{ CFS/AF}$$



- c. Assigning a single combined flow rate of 0.08 CFS to all livestock direct from source rights without a designated flow rate, per Department adjudication standards; and,
 - d. Assuming that the flow rate of each existing right is continuously diverted throughout each month of its period of diversion (regardless of if the period of diversion only exists as a few days per month). This assumption is necessary due to the difficulty of differentiating the distribution of appropriated volume over the period of diversion on a large quantity of water rights. This leads to an overestimation of existing uses from the source. The Department finds this is an appropriate measure of assessing existing rights as it protects existing water users.
3. Since the gage is downstream of the depleted reach, the Department added the flow rates of the existing rights between the Flathead Lake inlet and USGS Gage # 12372000 (**Table 1**, Column D) to the median of the mean monthly gage values (**Table 1**, column B) to determine physical availability in the depleted reach (**Table 1**, column E). Physically available monthly flow rates were then converted to monthly volumes (**Table 1**, column F).

A	B	C	D	E	F
Month	Physically Available Water: Flathead Lake (CFS)	Physically Available Water: Flathead Lake (AF)	Existing Legal Demands from Flathead Lake Inlet to Gage # 12372000 (CFS)	Physically Available Water Plus Legal Demands (CFS)	Physically Available Water Plus Legal Demands (AF)
January	10,270.0	630,372.6	105.9	10,375.9	636,871.9
February	9,149.5	507,248.3	105.9	9,255.4	513,118.6
March	7,763.0	476,492.9	105.9	7,868.9	482,992.3
April	9,214.5	547,341.3	176.7	9,391.2	557,839.5
May	18,560.0	1,139,212.8	176.7	18,736.7	1,150,061.0
June	25,400.0	1,508,760.0	176.7	25,576.7	1,519,258.2
July	12,730.0	781,367.4	176.7	12,906.7	792,215.6
August	6,126.0	376,013.9	176.7	6,302.7	386,862.1
September	5,956.5	353,816.1	176.7	6,133.2	364,314.3
October	7,230.5	443,808.1	176.7	7,407.2	454,656.3
November	8,556.0	508,226.4	105.9	8,661.9	514,516.1
December	9,860.0	605,206.8	105.9	9,965.9	611,706.1



3.0 Area of Potential Impact Analysis of Depleted Surface Water

The Area of Potential Impact for this application is:

The area of potential impact of depleted surface water includes the entirety of Flathead Lake. A total of 1,789 surface water rights exist within this reach. A list of these rights can be found in **Appendix A**.

Explanation of why this is an appropriate Area of Potential Impact:

Physical Availability of Flathead Lake was quantified in **Section 2.0** above by quantifying the volume of physically available water between the Lake inlet and the Seli's Ksanka Qlispe' Dam near Polson, MT. The dam is the control structure for Flathead Lake, and depletions to Flathead Lake will reduce the total volume of water passing over or through the dam and leaving the Lake. USGS Gage # 12372000 is approximately 0.6 miles downstream of the dam. The date range used includes the entire period of record for this gage.

Methodology:

The project wells are located in an unconfined fractured bedrock aquifer approximately 7,800 feet west of Flathead Lake. Hydraulic connection to Flathead Lake, as well as non-connection to nearby surface water bodies such as Stoner Creek and Forrey Creek, was determined in **Section 7.2(2) of Part A** of this Technical Analysis.

Review

This document has been reviewed by the Department on January 31, 2024.

References

- Department Standard Practice for Determining Physical Availability of Surface Water
- Department Standard Practice for Determining Area of Potential Impact
- DNRC Technical Memorandum: "*Physical Availability of Surface Water with Gage Data*," dated November 1, 2019.

Appendix A: Flathead Lake Existing Water Rights: Flathead Lake Inlet to USGS Gage # 12372000

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 140262 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 141714 00	STATEMENT OF CLAIM	IRRIGATION	20
76LJ 154035 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 30824 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 46840 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 100127 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 100379 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.12
76LJ 100382 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 100418 00	STATEMENT OF CLAIM	DOMESTIC	0.37
76LJ 100423 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 100424 00	STATEMENT OF CLAIM	INSTITUTIONAL	0.03
76LJ 100425 00	STATEMENT OF CLAIM	INSTITUTIONAL	0.04
76LJ 100429 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 100447 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 100454 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 100455 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 100456 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 100463 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 100466 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 100467 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 100468 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 100474 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 10085 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 10090 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 10094 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 10095 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 101247 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 102691 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 103186 00	STATEMENT OF CLAIM	DOMESTIC	0.16
76LJ 103187 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 103197 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 103202 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 103209 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 103210 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 103226 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 103227 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 103239 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 103248 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 103250 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 103261 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103262 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 103265 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 103266 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103268 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 103270 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 103274 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 103276 00	STATEMENT OF CLAIM	DOMESTIC	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 103282 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 103283 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103297 00	STATEMENT OF CLAIM	STOCK	0.02
76LJ 103300 00	STATEMENT OF CLAIM	IRRIGATION	0.14
76LJ 103301 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 103305 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103311 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 103323 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 103324 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 103325 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 103326 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 103342 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.01
76LJ 103344 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 103353 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 103355 00	STATEMENT OF CLAIM	COMMERCIAL	0.07
76LJ 103391 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103731 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 103774 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.13
76LJ 103794 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 103802 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 103828 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 103929 00	PROVISIONAL PERMIT	LAWN AND GARDEN; DOMESTIC	0.03
76LJ 104006 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.07
76LJ 104013 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.05
76LJ 104306 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 104512 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 104516 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 104575 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 104586 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 104590 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 104606 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 104648 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 104651 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 104653 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 104654 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 104655 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 104665 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 104668 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 104680 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 104701 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 104702 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 104705 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.08
76LJ 104712 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 104714 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 104728 00	STATEMENT OF CLAIM	RECREATION	0.00
76LJ 104735 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
		DOMESTIC	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 104745 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 104746 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 104968 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 104978 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 105091 00	STATEMENT OF CLAIM	DOMESTIC	0.33
76LJ 105097 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105098 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 105103 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105142 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105161 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105182 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 105205 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 105224 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105225 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 105264 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.06
76LJ 105300 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 105355 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 105364 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 105372 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 105419 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.08
76LJ 105451 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 105454 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 105456 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 1060 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 1063 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.14
76LJ 106899 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 106901 00	PROVISIONAL PERMIT	IRRIGATION; LAWN AND GARDEN; RECREATION; STOCK	2.93
76LJ 107343 00	STATEMENT OF CLAIM	STOCK	0.03
76LJ 107344 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 107346 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 107368 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 107404 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 107420 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 107450 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 107453 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 107565 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 107746 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 107791 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 107833 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 108178 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 108186 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 108209 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 108835 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 108850 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 108940 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 109390 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 109394 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 109404 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 109410 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 109417 00	STATEMENT OF CLAIM	DOMESTIC	0.10
76LJ 109431 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 109447 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 109448 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.04
76LJ 109450 00	STATEMENT OF CLAIM	IRRIGATION	0.14
76LJ 109451 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 109488 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 109497 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 109514 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.14
76LJ 109515 00	STATEMENT OF CLAIM	IRRIGATION	0.25
76LJ 109516 00	STATEMENT OF CLAIM	IRRIGATION	0.45
76LJ 109518 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 109520 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 109521 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 109547 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 109548 00	STATEMENT OF CLAIM	IRRIGATION	0.45
76LJ 109557 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.17
76LJ 109576 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 109594 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 110467 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 110468 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 110479 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 110489 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 110494 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 110495 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 110500 00	STATEMENT OF CLAIM	IRRIGATION	0.23
76LJ 110501 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 110502 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 110503 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 110504 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 110527 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 110552 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 110553 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 110554 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 110556 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 110666 00	PROVISIONAL PERMIT	IRRIGATION; STOCK	0.12
76LJ 110830 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 110843 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 110872 00	STATEMENT OF CLAIM	DOMESTIC	2.25
76LJ 110875 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 111129 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 111325 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 111360 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 113144 00	PROVISIONAL PERMIT	LAWN AND GARDEN; DOMESTIC	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 114039 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 114361 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 114377 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 114380 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 114532 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 114533 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 114535 00	STATEMENT OF CLAIM	NAVIGATION	0.00
76LJ 114536 00	STATEMENT OF CLAIM	NAVIGATION	0.00
76LJ 114545 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 114546 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 114564 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 114565 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 114567 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 114569 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 114586 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 114587 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 114588 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 114591 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 115784 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 115788 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 115833 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 115914 00	PROVISIONAL PERMIT	DOMESTIC, LAWN AND GARDEN	0.03
76LJ 115919 00	PROVISIONAL PERMIT	IRRIGATION	0.07
76LJ 11602 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 11618 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 11620 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 11621 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 1163 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 116950 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 117716 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 118100 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 118131 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 118141 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 12051 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 122920 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 122923 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 122956 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 122957 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 122958 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 122960 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 122971 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 122975 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 122978 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 122982 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 122986 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 122996 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 123044 00	STATEMENT OF CLAIM	DOMESTIC	0.07

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 123048 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 123051 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 123087 00	STATEMENT OF CLAIM	IRRIGATION	0.12
76LJ 123122 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 123865 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 123892 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 124081 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 124137 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 124144 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 124145 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 124163 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 124164 00	STATEMENT OF CLAIM	COMMERCIAL	0.01
76LJ 124165 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 124166 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 124179 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 124185 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 124234 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 12429 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 12449 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 12450 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 12455 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 12458 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 12460 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 12466 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 12467 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 128574 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 128843 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 128845 00	STATEMENT OF CLAIM	DOMESTIC	1.67
76LJ 128874 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.10
76LJ 128876 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 128884 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 128887 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.08
76LJ 128893 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 128912 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 128916 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 128918 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 128925 00	STATEMENT OF CLAIM	IRRIGATION	0.15
76LJ 128927 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 128943 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 128951 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 128955 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 128962 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 128970 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 128973 00	STATEMENT OF CLAIM	COMMERCIAL	0.22
76LJ 128978 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 128986 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 128990 00	STATEMENT OF CLAIM	DOMESTIC	0.01

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 129004 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 129005 00	STATEMENT OF CLAIM	IRRIGATION	0.77
76LJ 129010 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 129015 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 129016 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 129019 00	STATEMENT OF CLAIM	COMMERCIAL	0.06
76LJ 129027 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 129031 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 129032 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 129051 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 129056 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 129058 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.15
76LJ 129061 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 129093 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 129102 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 129103 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 129108 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 12994 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.11
76LJ 130079 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 130380 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 130807 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 131012 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 131014 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 131015 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 131019 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 131021 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 131030 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 131049 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 131064 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 131065 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 131094 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 131446 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 131457 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 131466 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.10
76LJ 131469 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 131479 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 131487 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 131503 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 134522 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134548 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134551 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 134558 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 134559 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.13
76LJ 134560 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.13
76LJ 134561 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 134569 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 134573 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 134767 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134769 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134773 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 134799 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134832 00	STATEMENT OF CLAIM	IRRIGATION	0.17
76LJ 134851 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 134867 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 134868 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 134887 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 134888 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 134893 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 135007 00	STATEMENT OF CLAIM	IRRIGATION	0.44
76LJ 140138 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 140141 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140146 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 140161 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 140176 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 140181 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 140190 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140238 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 140252 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 140259 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140260 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 140265 00	STATEMENT OF CLAIM	IRRIGATION	0.13
76LJ 140278 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140282 00	STATEMENT OF CLAIM	DOMESTIC	0.00
76LJ 140289 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 1403 00	STATEMENT OF CLAIM	IRRIGATION	0.41
76LJ 140304 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140305 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 140308 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 140310 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 1407 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 141323 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 141425 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 141429 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 141430 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 141446 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 14146 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 141651 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 141658 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 1418 00	STATEMENT OF CLAIM	COMMERCIAL	0.04
76LJ 1419 00	STATEMENT OF CLAIM	COMMERCIAL	0.04
76LJ 141903 00	STATEMENT OF CLAIM	IRRIGATION	1.34
76LJ 1420 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 142038 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 142041 00	STATEMENT OF CLAIM	IRRIGATION	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 14216 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 142322 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 142323 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 14233 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 14234 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 14235 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 14236 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 14243 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 14243 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 14258 00	STATEMENT OF CLAIM	MUNICIPAL	11.14
76LJ 142607 00	STATEMENT OF CLAIM	INDUSTRIAL	11.14
76LJ 142608 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 14267 00	STATEMENT OF CLAIM	IRRIGATION	0.16
76LJ 143767 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 143772 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 143773 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 143776 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 143781 00	STATEMENT OF CLAIM	DOMESTIC	0.00
76LJ 143782 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 143783 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 143800 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 143810 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143813 00	STATEMENT OF CLAIM	DOMESTIC	0.10
76LJ 143818 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 143821 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 143822 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143824 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.16
76LJ 143825 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 143833 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 143834 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 143837 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 143839 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 143843 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 143846 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 143848 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143850 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143852 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143857 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 143858 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 143859 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 143860 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143862 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 143867 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 143899 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 143900 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 143906 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 143908 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 143909 00	STATEMENT OF CLAIM	DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 143911 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 143912 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 143913 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 14584 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 146799 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 146899 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 146900 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 146910 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 146911 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 146918 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 146928 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 146931 00	STATEMENT OF CLAIM	DOMESTIC	0.12
76LJ 146935 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 146936 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 146942 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 146948 00	STATEMENT OF CLAIM	DOMESTIC	0.15
76LJ 146949 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 146956 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 146972 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 146975 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 146982 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 146983 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 146986 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 146993 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 146998 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 146999 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 147007 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 147008 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 147040 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 147063 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 147067 00	STATEMENT OF CLAIM	FIRE PROTECTION	0.20
76LJ 147068 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 147071 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147074 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147077 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 147081 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 147087 00	STATEMENT OF CLAIM	DOMESTIC	0.22
76LJ 147115 00	STATEMENT OF CLAIM	STOCK	0.22
76LJ 147116 00	STATEMENT OF CLAIM	IRRIGATION	0.55
76LJ 147119 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 147133 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 147147 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 147153 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147155 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 147169 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147170 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 147171 00	STATEMENT OF CLAIM	DOMESTIC	0.07

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 147177 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 147178 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 147180 00	STATEMENT OF CLAIM	IRRIGATION	0.33
76LJ 147182 00	STATEMENT OF CLAIM	STOCK	0.08~
76LJ 147184 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 147194 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 147195 00	STATEMENT OF CLAIM	COMMERCIAL	0.02
76LJ 147220 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147221 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 147224 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147225 00	STATEMENT OF CLAIM	DOMESTIC	0.00
76LJ 147229 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 147243 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 147258 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147259 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 147274 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 147331 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 147333 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 147341 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 147363 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 147383 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 147424 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147425 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 147435 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147438 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 147452 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 147481 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147482 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147590 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 147591 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 147596 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 147605 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 147606 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 147609 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 147634 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 148703 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 148704 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 148705 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148711 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 148739 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148748 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 148749 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 148755 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 148760 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 148762 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148782 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 148783 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 148784 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 148786 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.22
76LJ 148787 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148821 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 148822 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148823 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 148836 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148841 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.08
76LJ 148842 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 148847 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148852 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 148853 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 148854 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 148855 00	STATEMENT OF CLAIM	STOCK	0.11
76LJ 148858 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 148859 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 148872 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148878 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148881 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 148886 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 148887 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.08
76LJ 148895 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 148900 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148903 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 148906 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 148913 00	STATEMENT OF CLAIM	DOMESTIC	0.15
76LJ 148918 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 148919 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 148920 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 148940 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 148943 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 148945 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 148946 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 148951 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 148953 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 148957 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 148963 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 148972 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 148979 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 149104 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 149371 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 149495 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 149925 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 150025 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 150026 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 150419 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 150430 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 150431 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.33
76LJ 150432 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 150433 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 150439 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 150440 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 150449 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 150462 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 150463 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 150464 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 150479 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.22
76LJ 150487 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 150488 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 150679 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 150696 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 150697 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 150699 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 150716 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 150717 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 150725 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 151270 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 151505 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 15159 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 15160 00	STATEMENT OF CLAIM	IRRIGATION	0.37
76LJ 151600 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 15161 00	STATEMENT OF CLAIM	IRRIGATION	0.37
76LJ 15170 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 15182 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 15190 00	STATEMENT OF CLAIM	IRRIGATION	0.36
76LJ 15191 00	STATEMENT OF CLAIM	STOCK	0.06
76LJ 15192 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 15203 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 152166 00	STATEMENT OF CLAIM	DOMESTIC	0.14
76LJ 152170 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 152171 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 152176 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 152177 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 152178 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 152179 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.00
76LJ 15367 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 153945 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 15397 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 153975 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 154040 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 154041 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 154042 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 156832 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 156836 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 1570 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 1571 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 157876 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 158080 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 158088 00	STATEMENT OF CLAIM	IRRIGATION	0.16
76LJ 15935 00	PROVISIONAL PERMIT	IRRIGATION	0.05
76LJ 16012 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 16250 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 16260 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 16286 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 16299 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 16301 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 16306 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 16307 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 16313 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 163874 00	STATEMENT OF CLAIM	INSTITUTIONAL	0.02
76LJ 1640 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 164701 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 164711 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 164712 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 164713 00	STATEMENT OF CLAIM	FISH AND WILDLIFE	0.00
76LJ 164714 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 164723 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 164724 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 164739 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 164740 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 164761 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 164763 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 164770 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 164773 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 164774 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 164780 00	STATEMENT OF CLAIM	DOMESTIC	0.15
76LJ 164789 00	STATEMENT OF CLAIM	INDUSTRIAL	0.00
76LJ 164792 00	STATEMENT OF CLAIM	INDUSTRIAL	4.00
76LJ 166806 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 166807 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 166824 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 166832 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 166847 00	STATEMENT OF CLAIM	IRRIGATION	0.29
76LJ 166869 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 166870 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 166871 00	STATEMENT OF CLAIM	IRRIGATION	0.16
76LJ 166872 00	STATEMENT OF CLAIM	FIRE PROTECTION	0.16
76LJ 166903 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 17146 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 1726 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 1727 00	STATEMENT OF CLAIM	DOMESTIC	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 17873 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 17878 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 17948 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 17949 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 17950 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 17974 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 17975 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 17992 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 180004 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 182130 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 182132 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.09
76LJ 1847 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 1849 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 1853 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 185619 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 185970 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 18774 00	STATEMENT OF CLAIM	IRRIGATION	0.30
76LJ 18901 00	STATEMENT OF CLAIM	FISH RACEWAYS	0.89
76LJ 189825 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 19010 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 19016 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 19017 00	STATEMENT OF CLAIM	COMMERCIAL	0.02
76LJ 19018 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 19022 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 19037 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 19038 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 19226 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 193296 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 1954 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 19549 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 1955 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 1962 00	STATEMENT OF CLAIM	IRRIGATION	0.26
76LJ 1966 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 1969 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 1970 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 19939 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 2023 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 20334 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 20335 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 20336 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 20345 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 20348 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 20349 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 20352 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 20353 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 20356 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 20359 00	STATEMENT OF CLAIM	DOMESTIC	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 20360 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 20361 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 205745 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 206665 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 20687 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 210664 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 210665 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 210805 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 211810 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 213818 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 213824 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 213943 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 213951 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 214424 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 214629 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 214679 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 214692 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 214700 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 214740 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 214796 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 214814 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 214827 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 214846 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 214879 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 214911 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 214919 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 215065 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 21546 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 215859 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 215860 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 215881 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 215989 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 215991 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 216002 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 216005 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 216009 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 216010 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 216034 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 216042 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 216060 00	STATEMENT OF CLAIM	IRRIGATION	2.67
76LJ 216073 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 21927 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 21932 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 21940 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 21941 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 21942 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 21942 00	STATEMENT OF CLAIM	DOMESTIC	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 21943 00	STATEMENT OF CLAIM	DOMESTIC	0.22
76LJ 21944 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 21950 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 21955 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 21956 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 21957 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 21958 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 22260 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 22275 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 22276 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 22281 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 22292 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 22296 00	STATEMENT OF CLAIM	DOMESTIC	0.00
76LJ 22287 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 2294 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 2295 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 22984 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 22989 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 23042 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 23048 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.09
76LJ 23051 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 23074 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 23075 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 23076 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 23077 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 23078 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 23080 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 23081 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 23082 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 23083 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 23084 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 23152 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 2323 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 2327 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 24067 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.11
76LJ 24068 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 24069 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 24072 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 24103 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 24107 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 24110 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 24394 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 24398 00	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 24805 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 24821 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 24823 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 24824 00	STATEMENT OF CLAIM	IRRIGATION	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 24825 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 24841 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 24856 00	PROVISIONAL PERMIT	IRRIGATION	0.26
76LJ 25225 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 25239 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.55
76LJ 25244 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.30
76LJ 25245 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 25252 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.66
76LJ 25254 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 25259 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.06
76LJ 25270 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.66
76LJ 25271 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 25273 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 25274 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 25275 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 25276 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 25277 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 25289 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 25290 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 25293 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 25294 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 25350 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 25354 00	STATEMENT OF CLAIM	COMMERCIAL	0.35
76LJ 25355 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.13
76LJ 25356 00	STATEMENT OF CLAIM	IRRIGATION	0.35
76LJ 25357 00	STATEMENT OF CLAIM	STOCK	0.03
76LJ 25359 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 25360 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 25371 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 25375 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 25376 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 25377 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 25383 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 25676 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 25756 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 26323 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 26539 00	STATEMENT OF CLAIM	LAWN AND GARDEN	2.67
76LJ 26543 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 26544 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 26551 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 26554 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 26556 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 26562 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 26563 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 26565 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 26566 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 26567 00	STATEMENT OF CLAIM	IRRIGATION	0.75

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 26568 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 26570 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 26577 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 26578 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 26584 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 26586 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 26589 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 26590 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.10
76LJ 26592 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.13
76LJ 26609 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 26610 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 26612 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 26613 00	STATEMENT OF CLAIM	DOMESTIC	0.16
76LJ 26623 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 26808 00	PROVISIONAL PERMIT	IRRIGATION	0.70
76LJ 26845 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 26846 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 26938 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 26954 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 26955 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 26956 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 26972 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 27135 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 2714 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 2721 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 27305 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 27306 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 27385 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 27485 00	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 27522 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 27625 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 27647 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27694 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27697 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.33
76LJ 27702 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 27704 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 27713 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27715 00	STATEMENT OF CLAIM	IRRIGATION	0.17
76LJ 27716 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 27727 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 27728 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 27734 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 27735 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 27736 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 27738 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 27745 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 27747 00	STATEMENT OF CLAIM	DOMESTIC	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 27751 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27753 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 27755 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 27756 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 27758 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27761 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 27763 00	STATEMENT OF CLAIM	DOMESTIC	0.22
76LJ 27773 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27774 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 27776 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 27784 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28469 00	PROVISIONAL PERMIT	IRRIGATION	0.09
76LJ 2847 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 28482 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 28483 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 28484 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 28485 00	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 2849 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28559 00	STATEMENT OF CLAIM	DOMESTIC	0.12
76LJ 28595 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 28596 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 28622 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 28623 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 28625 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28629 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28634 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 28637 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 28638 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 28639 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28644 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 28645 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 28646 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 28648 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 28654 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 28669 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28670 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 28671 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 28672 00	STATEMENT OF CLAIM	RECREATION	0.00
76LJ 28683 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 28865 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 29015 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 29116 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 29128 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 29199 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 29509 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 29510 00	STATEMENT OF CLAIM	DOMESTIC	0.20

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 29518 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 29524 00	STATEMENT OF CLAIM	IRRIGATION	0.24
76LJ 29525 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 29529 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 29544 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 29546 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 29560 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 29563 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 29564 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 29572 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.14
76LJ 29857 00	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 30003137	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.11
76LJ 30005058	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN; IRRIGATION	0.19
76LJ 30005248	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 30005506	PROVISIONAL PERMIT	GEOTHERMAL	0.78
76LJ 30006852	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 30007528	PROVISIONAL PERMIT	DOMESTIC	0.05
76LJ 30008003	PROVISIONAL PERMIT	IRRIGATION	0.08
76LJ 30008527	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30009252	PROVISIONAL PERMIT	MULTIPLE DOMESTIC; LAWN AND GARDEN; IRRIGATION	0.12
76LJ 30009500	PROVISIONAL PERMIT	IRRIGATION; STOCK	0.03
76LJ 30009551	PROVISIONAL PERMIT	IRRIGATION	0.22
76LJ 30010658	PROVISIONAL PERMIT	DOMESTIC	0.11
76LJ 30010670	PROVISIONAL PERMIT	IRRIGATION	0.11
76LJ 30011706	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 30012009	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN; IRRIGATION	0.06
76LJ 30012853	PROVISIONAL PERMIT	MULTIPLE DOMESTIC; LAWN AND GARDEN	0.02
76LJ 30013464	PROVISIONAL PERMIT	GARDEN	0.11
76LJ 30013492	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 30013728	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.06
76LJ 30015197	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30016274	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 30017170	PROVISIONAL PERMIT	DOMESTIC	0.08
76LJ 30019130	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 30022744	PROVISIONAL PERMIT	LAWN AND GARDEN; DOMESTIC	0.07
76LJ 30024405	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30025680	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30026217	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30026218	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30026254	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30044923	PROVISIONAL PERMIT	LAWN AND GARDEN	0.11
76LJ 30046661	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30046662	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 30046703	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 30046775	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 30047099	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30049045	PROVISIONAL PERMIT	MULTIPLE DOMESTIC; LAWN AND GARDEN	0.00
76LJ 30049095	PROVISIONAL PERMIT	GARDEN	0.05
76LJ 30049096	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30049493	STATEMENT OF CLAIM	LAWN AND GARDEN	0.26
76LJ 30049787	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 30050038	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 30050840	PROVISIONAL PERMIT	MULTIPLE DOMESTIC; IRRIGATION	0.11
76LJ 30050841	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 30051226	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 30051597	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30052283	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30063025	PROVISIONAL PERMIT	IRRIGATION	0.11
76LJ 30063093	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 30066198	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30066949	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 30068908	PROVISIONAL PERMIT	DOMESTIC; STOCK; IRRIGATION	0.05
76LJ 30069050	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 30069798	PROVISIONAL PERMIT	IRRIGATION	0.07
76LJ 30104908	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 30108766	PROVISIONAL PERMIT	LAWN AND GARDEN; IRRIGATION	0.05
76LJ 30109651	PROVISIONAL PERMIT	IRRIGATION	0.13
76LJ 30109916	PROVISIONAL PERMIT	IRRIGATION	0.24
76LJ 30110615	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30113860	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 30116423	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 30118123	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.01
76LJ 30118815	PROVISIONAL PERMIT	IRRIGATION	0.31
76LJ 30119637	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN; IRRIGATION	0.07
76LJ 30128325	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30128346	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30128361	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30128476	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30128686	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 30128746	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30129079	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30129103	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30129106	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30129109	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30129547	STATEMENT OF CLAIM	STOCK	0.08*
76LJ 30147436	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 30148842	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 30148853	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 30149316	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 30151379	PROVISIONAL PERMIT	IRRIGATION	0.53
76LJ 30151397	PROVISIONAL PERMIT	IRRIGATION	1.06
76LJ 30151648	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
		DOMESTIC; LAWN AND GARDEN;	
76LJ 30152908	PROVISIONAL PERMIT	IRRIGATION	0.05
76LJ 30153804	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 30154839	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 30156358	PROVISIONAL PERMIT	IRRIGATION	0.07
76LJ 30181000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 30182000	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 30750000	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 30755000	PROVISIONAL PERMIT	DOMESTIC	0.05
76LJ 30756000	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.06
76LJ 30757000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 30758000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 30759000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 30760000	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 30761000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 30766000	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 30771000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 30783000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 30786000	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 30792000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 30797000	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 30798000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.08
76LJ 30799000	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 30800000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 30802000	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 30815000	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 30822000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 30823000	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 30831000	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 30832000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 30838000	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 30841000	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 30853000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 30854000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 30867000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 31043000	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 31051000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 31068000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 31183000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 31196000	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 31400000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 31445000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 32105000	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 32106000	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 32108000	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 32241000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 32246000	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 32248000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 32256000	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 32483000	PROVISIONAL PERMIT	IRRIGATION	0.35
76LJ 32520000	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 32521000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 32523000	STATEMENT OF CLAIM	COMMERCIAL	0.07
76LJ 32524000	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 32525000	STATEMENT OF CLAIM	DOMESTIC	0.12
76LJ 32537000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 32543000	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 32548000	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 32551000	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 32552000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 32557000	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 32561000	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 32570000	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 32585000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 32596000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 32951000	STATEMENT OF CLAIM	INSTITUTIONAL	0.07
76LJ 32954000	STATEMENT OF CLAIM	INSTITUTIONAL	0.07
76LJ 32988000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 33025000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.11
76LJ 33045000	STATEMENT OF CLAIM	INSTITUTIONAL	0.07
76LJ 33286000	PROVISIONAL PERMIT	IRRIGATION	0.22
76LJ 33311000	PROVISIONAL PERMIT	DOMESTIC; STOCK	0.02
76LJ 33312000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 33314000	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 33315000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.08
76LJ 33530000	STATEMENT OF CLAIM	IRRIGATION	0.41
76LJ 33639000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 33645000	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 33649000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 33650000	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 33680000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 33685000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 33766000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 33800000	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 33830000	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 33850000	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 34022000	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 34174000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 34179000	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 34180 00	PROVISIONAL PERMIT	DOMESTIC, IRRIGATION	0.11
76LJ 34223 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 34231 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 34236 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 34238 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 34239 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 34250 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 34251 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 34259 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 34266 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 34268 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 34270 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 34271 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 34272 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 34273 00	STATEMENT OF CLAIM	COMMERCIAL	0.04
76LJ 34276 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 34281 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 34284 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 34297 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 34300 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 34303 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 34305 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 34306 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 34313 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 34314 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 34317 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.33
76LJ 34318 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 34319 00	STATEMENT OF CLAIM	IRRIGATION	0.10
76LJ 34320 00	STATEMENT OF CLAIM	COMMERCIAL	0.07
76LJ 34323 00	STATEMENT OF CLAIM	COMMERCIAL	0.03
76LJ 34324 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 34330 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 34346 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 34348 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 34570 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 34623 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 3471 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 3477 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 34983 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 35016 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 35143 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 35147 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 35152 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 35153 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 35378 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 35605 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 35606 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 35607 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 35618 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 35619 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.44
76LJ 35624 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 35625 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 35627 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 35629 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 35632 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 35633 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 35638 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 35645 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 35647 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 35650 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 35651 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 35652 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 35657 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 35660 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 35670 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 35671 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 35674 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 35675 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 35697 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 35707 00	STATEMENT OF CLAIM	COMMERCIAL	0.06
76LJ 35708 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 35709 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 35711 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 35717 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 35734 00	STATEMENT OF CLAIM	DOMESTIC	0.00
76LJ 35735 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 35739 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 35747 00	STATEMENT OF CLAIM	IRRIGATION	0.12
76LJ 35751 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 35812 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 35813 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 35821 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 35822 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 36084 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36088 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 36089 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 36090 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 36093 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36094 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36095 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36098 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36101 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36102 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36103 00	PROVISIONAL PERMIT	DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 36270 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 36287 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 36364 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 36371 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 36448 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.01
76LJ 3655 00	STATEMENT OF CLAIM	COMMERCIAL	0.08
76LJ 3669 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 36868 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 36872 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 36873 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 36874 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 37001 00	PROVISIONAL PERMIT	LAWN AND GARDEN; DOMESTIC	0.02
76LJ 37184 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 37185 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 37193 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.11
76LJ 37201 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 37434 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 37609 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 3769 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 37783 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 37785 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 38046 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 38048 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 38414 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 38482 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 38730 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 39388 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 39405 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.12
76LJ 39406 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 39421 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 39514 00	PROVISIONAL PERMIT	DOMESTIC	0.05
76LJ 39517 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 39552 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 39553 00	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 39556 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 39556 01	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 39572 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 39579 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 39581 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 39582 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39583 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39584 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 39592 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 39593 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 39594 00	STATEMENT OF CLAIM	IRRIGATION	0.32
76LJ 39596 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 39598 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 39599 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 39616 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39631 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 39633 00	STATEMENT OF CLAIM	DOMESTIC	0.14
76LJ 39637 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 39639 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 39640 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 39645 00	STATEMENT OF CLAIM	COMMERCIAL	0.12
76LJ 39647 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 39675 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 39698 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 39700 00	STATEMENT OF CLAIM	IRRIGATION	0.15
76LJ 39704 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.17
76LJ 39707 00	STATEMENT OF CLAIM	DOMESTIC	0.13
76LJ 39716 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 39717 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 39721 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39722 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39748 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39750 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 39751 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 39756 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39757 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39768 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 39769 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 39774 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.13
76LJ 39779 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 39780 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 39789 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 39799 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 39800 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 39811 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39813 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39814 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 39816 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 39818 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.12
76LJ 39828 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 39839 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 39840 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 39842 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 39853 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 39854 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 39857 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 39861 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 39864 00	STATEMENT OF CLAIM	IRRIGATION	0.03
76LJ 39869 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 39870 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 39874 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 39875 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 39888 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.08
76LJ 4022 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 40921 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 40924 00	PROVISIONAL PERMIT	IRRIGATION	0.08
76LJ 4113 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 4121 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 41386 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 41390 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 41393 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 41396 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 41398 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 41400 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 41401 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.01
76LJ 41437 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.11
76LJ 41442 00	PROVISIONAL PERMIT	LAWN AND GARDEN; OTHER	0.04
76LJ 41447 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 41448 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.03
76LJ 41450 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.08
76LJ 41451 00	PROVISIONAL PERMIT	DOMESTIC	0.12
76LJ 41452 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 41457 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 41672 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 41681 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 41684 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 42347 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 42387 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 42400 00	PROVISIONAL PERMIT	IRRIGATION	0.02
76LJ 42402 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 42404 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 42405 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 42406 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 42411 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 42414 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 42415 00	PROVISIONAL PERMIT	IRRIGATION	0.05
76LJ 42416 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 42531 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 42550 00	STATEMENT OF CLAIM	IRRIGATION	0.49
76LJ 42552 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.02
76LJ 42560 00	STATEMENT OF CLAIM	COMMERCIAL	0.13
76LJ 42570 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 42571 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 42572 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 42575 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 42580 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 42581 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 42584 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.06
76LJ 42591 00	STATEMENT OF CLAIM	IRRIGATION	0.02
76LJ 42595 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 42597 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 42598 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 42599 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 42600 00	STATEMENT OF CLAIM	COMMERCIAL	0.03
76LJ 42601 00	STATEMENT OF CLAIM	FIRE PROTECTION	2.23
76LJ 42602 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 42603 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 42606 00	STATEMENT OF CLAIM	IRRIGATION	0.26
76LJ 42691 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 43045 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION; STOCK	0.15
76LJ 43056 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 43058 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 43064 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 43065 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 43073 00	PROVISIONAL PERMIT	IRRIGATION; RECREATION	0.05
76LJ 43076 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 43077 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 43107 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 43179 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 43185 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 43193 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 43332 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.01
76LJ 43394 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 4413 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 4417 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 44306 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 44358 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 44360 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 44362 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 44793 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 45038 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 45042 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45043 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.09
76LJ 45044 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 45046 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45059 00	STATEMENT OF CLAIM	INSTITUTIONAL	0.03
76LJ 45062 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45064 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 45065 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45066 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45067 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 45098 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45108 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 45109 00	STATEMENT OF CLAIM	DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 45113 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 45114 00	STATEMENT OF CLAIM	IRRIGATION	0.10
76LJ 45115 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 45118 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45126 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 45131 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 45134 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45142 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 45144 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45146 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 45165 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45166 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45170 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45172 00	STATEMENT OF CLAIM	IRRIGATION	0.07
76LJ 45176 00	STATEMENT OF CLAIM	IRRIGATION	0.01
76LJ 45179 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45180 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45187 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 45188 00	STATEMENT OF CLAIM	STOCK	0.04
76LJ 45189 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 45193 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 45194 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45208 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45209 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 45210 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45214 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 45216 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45217 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 4531 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 4532 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 4533 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 4534 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 45384 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 45385 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 45390 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 45392 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 45407 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 4542 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 4544 00	STATEMENT OF CLAIM	IRRIGATION	0.05
76LJ 45444 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 45447 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 45458 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 4546 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 4546 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 4547 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 4548 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 46258 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 46269 00	STATEMENT OF CLAIM	DOMESTIC	0.07

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 46271 00	STATEMENT OF CLAIM	IRRIGATION	0.15
76LJ 46273 00	STATEMENT OF CLAIM	IRRIGATION	0.13
76LJ 46274 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 46287 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 46290 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 46291 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 46292 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 46297 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 46334 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 46335 00	STATEMENT OF CLAIM	DOMESTIC	0.15
76LJ 46818 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 46822 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 46826 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 46827 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 46882 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 46886 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 46915 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 46921 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 46922 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 4693 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 46938 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 46945 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 46946 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 4707 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 47338 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 47522 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.35
76LJ 47772 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 47778 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 47780 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 4805 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 48087 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 48090 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 48092 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 48101 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 4811 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 48328 00	PROVISIONAL PERMIT	IRRIGATION	0.40
76LJ 48332 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.11
76LJ 48333 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION; STOCK	0.02
76LJ 48338 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 4851 00	PROVISIONAL PERMIT	COMMERCIAL; IRRIGATION; STOCK	1.78
76LJ 48544 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 4861 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 4876 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 489 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 48920 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 48923 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 49017 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 49032 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 49049 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 491 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 4920 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 4954 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 4956 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 4957 00	STATEMENT OF CLAIM	DOMESTIC	0.08
76LJ 4959 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 4960 00	STATEMENT OF CLAIM	COMMERCIAL	0.04
76LJ 4964 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 4965 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 50423 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 50442 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 50444 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 50445 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.06
76LJ 50446 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 50447 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 50448 00	PROVISIONAL PERMIT	LAWN AND GARDEN; DOMESTIC	0.02
76LJ 50449 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 50450 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 50451 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 50452 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 50454 00	PROVISIONAL PERMIT	DOMESTIC	0.08
76LJ 50456 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 50457 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 50458 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 50459 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 50468 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 50490 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.05
76LJ 50499 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 50509 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.13
76LJ 50596 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 5163 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 5183 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 52647 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 5277 00	STATEMENT OF CLAIM	IRRIGATION	0.22
76LJ 5278 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 5279 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 5286 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 5289 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 53622 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 5364 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 5367 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 5368 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 5374 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 5378 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 5379 00	STATEMENT OF CLAIM	DOMESTIC	0.02

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 54245 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 54364 00	PROVISIONAL PERMIT	COMMERCIAL; DOMESTIC	0.04
76LJ 546 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 5499 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 5513 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 5515 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 5522 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 55722 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 55833 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 5635 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 57 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 58 00	STATEMENT OF CLAIM	IRRIGATION	0.18
76LJ 5802 00	STATEMENT OF CLAIM	IRRIGATION	0.11
76LJ 5808 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 5816 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 5819 00	STATEMENT OF CLAIM	IRRIGATION	1.33
76LJ 5949 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 5958 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 5959 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 5960 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 6092 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 60950 00	PROVISIONAL PERMIT	DOMESTIC	0.07
76LJ 60996 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 6100 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 6101 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 6111 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 6119 00	STATEMENT OF CLAIM	IRRIGATION	0.37
76LJ 6120 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.05
76LJ 6133 00	STATEMENT OF CLAIM	COMMERCIAL	0.08
76LJ 6134 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.08
76LJ 6135 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 6145 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 6150 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 61932 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 62050 00	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 62074 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 6259 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.27
76LJ 6331 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 6335 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 6336 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07
76LJ 6341 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 6351 00	STATEMENT OF CLAIM	DOMESTIC	0.11
76LJ 6356 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 64277 00	PROVISIONAL PERMIT	IRRIGATION	0.17
76LJ 65 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 6536 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 6540 00	STATEMENT OF CLAIM	DOMESTIC	0.03

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 6543 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 6554 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 663 00	STATEMENT OF CLAIM	IRRIGATION	0.14
76LJ 6720 00	STATEMENT OF CLAIM	DOMESTIC	0.22
76LJ 6722 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 6772 00	PROVISIONAL PERMIT	IRRIGATION	1.85
76LJ 6781 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 6782 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 6786 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 68816 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 68882 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.03
76LJ 69758 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 70023 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 70074 00	PROVISIONAL PERMIT	IRRIGATION	0.07
76LJ 70991 00	PROVISIONAL PERMIT	DOMESTIC	0.06
76LJ 71008 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 72114 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 7238 00	STATEMENT OF CLAIM	IRRIGATION	2.00
76LJ 7242 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 7245 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 7246 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 7247 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 7257 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 7262 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.11
76LJ 7267 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 730 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 73001 00	PROVISIONAL PERMIT	OTHER PURPOSE; IRRIGATION	0.08
76LJ 73039 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 735 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 73584 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 736 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 737 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 73979 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 73990 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 74014 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 74455 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 7491 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 7503 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 75050 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.03
76LJ 7507 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 7519 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 754 00	STATEMENT OF CLAIM	FIRE PROTECTION	0.20
76LJ 755 00	STATEMENT OF CLAIM	IRRIGATION	0.20
76LJ 75982 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 7717 00	STATEMENT OF CLAIM	IRRIGATION	0.04
76LJ 77434 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.06
76LJ 78124 00	PROVISIONAL PERMIT	IRRIGATION	0.08

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 79345 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 80261 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 803 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 814 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 82366 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.08
76LJ 82399 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 82548 00	PROVISIONAL PERMIT	IRRIGATION; MULTIPLE DOMESTIC	0.13
76LJ 8317 00	STATEMENT OF CLAIM	IRRIGATION	0.20
76LJ 8318 00	STATEMENT OF CLAIM	STOCK	0.02
76LJ 8319 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 83772 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 84177 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 8418 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 84180 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 8419 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 8435 00	STATEMENT OF CLAIM	DOMESTIC	0.03
76LJ 8441 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 8444 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 84975 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 851 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 852 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 85290 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 85696 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 85713 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 85726 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 8660 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 87006 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 87518 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.01
76LJ 87542 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 87633 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 88615 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 88622 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.10
76LJ 88655 00	PROVISIONAL PERMIT	DOMESTIC	0.01
76LJ 88662 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 88664 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 89214 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 89273 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 90165 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.04
76LJ 90219 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.08
76LJ 90234 00	PROVISIONAL PERMIT	DOMESTIC; IRRIGATION	0.05
76LJ 9103 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 91042 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 91053 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 91138 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 91163 00	PROVISIONAL PERMIT	IRRIGATION; MULTIPLE DOMESTIC	0.31
76LJ 9126 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 92277 00	PROVISIONAL PERMIT	DOMESTIC	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 92332 00	PROVISIONAL PERMIT	IRRIGATION	0.03
76LJ 92359 00	PROVISIONAL PERMIT	IRRIGATION	0.24
76LJ 92391 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.06
76LJ 92392 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 92408 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 92421 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 92428 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.04
76LJ 93044 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 93070 00	PROVISIONAL PERMIT	DOMESTIC	0.08
76LJ 93088 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 93148 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 93149 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 93173 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.02
76LJ 93179 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 93193 00	PROVISIONAL PERMIT	DOMESTIC	0.04
76LJ 93203 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.05
76LJ 93234 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 93235 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.07
76LJ 9417 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 9429 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 94361 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 94496 00	PROVISIONAL PERMIT	MULTIPLE DOMESTIC	0.04
76LJ 94497 00	PROVISIONAL PERMIT	IRRIGATION	0.04
76LJ 9453 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 9455 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 9468 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 94950 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 9519 00	PROVISIONAL PERMIT	IRRIGATION	0.05
76LJ 95250 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 95267 00	PROVISIONAL PERMIT	DOMESTIC	0.03
76LJ 95276 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04
76LJ 95285 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.02
76LJ 95349 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.01
76LJ 95892 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.05
76LJ 9607 00	PROVISIONAL PERMIT	MUNICIPAL; DOMESTIC	0.66
76LJ 9679 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 9683 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 9684 00	STATEMENT OF CLAIM	IRRIGATION	0.09
76LJ 9700 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.04
76LJ 9702 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 9713 00	PROVISIONAL PERMIT	COMMERCIAL	0.11
76LJ 97145 00	PROVISIONAL PERMIT	DOMESTIC	0.02
76LJ 97165 00	PROVISIONAL PERMIT	IRRIGATION	0.06
76LJ 9832 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 98320 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.03
76LJ 98388 00	PROVISIONAL PERMIT	DOMESTIC; LAWN AND GARDEN	0.03
76LJ 98405 00	PROVISIONAL PERMIT	LAWN AND GARDEN	0.04

WR ID#	WR Type	Purpose(s)	Flow (CFS)
76LJ 98848 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 98849 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.01
76LJ 98850 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 98852 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 98856 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 98864 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 98865 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.05
76LJ 98868 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 98869 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 98870 00	STATEMENT OF CLAIM	DOMESTIC	0.04
76LJ 98871 00	STATEMENT OF CLAIM	IRRIGATION	0.06
76LJ 98893 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 98921 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.02
76LJ 98928 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 98932 00	STATEMENT OF CLAIM	DOMESTIC	0.06
76LJ 98971 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 99069 00	STATEMENT OF CLAIM	IRRIGATION	0.16
76LJ 99071 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.07
76LJ 99076 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.11
76LJ 99079 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 99107 00	STATEMENT OF CLAIM	IRRIGATION	0.21
76LJ 99108 00	STATEMENT OF CLAIM	DOMESTIC	0.01
76LJ 99109 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 99112 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 99130 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 99131 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 99132 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 99134 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 99137 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 99138 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.03
76LJ 99139 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 99143 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 99144 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 99145 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.03
76LJ 99146 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 99147 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.06
76LJ 99149 00	STATEMENT OF CLAIM	DOMESTIC	0.05
76LJ 99562 00	STATEMENT OF CLAIM	DOMESTIC	0.02
76LJ 99563 00	STATEMENT OF CLAIM	MULTIPLE DOMESTIC	0.04
76LJ 9975 00	STATEMENT OF CLAIM	DOMESTIC	0.07
76LJ 9975 00	STATEMENT OF CLAIM	LAWN AND GARDEN	0.07

Attachment C

Preliminary Site Layout

S24

S19

S25

S30

S29

S36

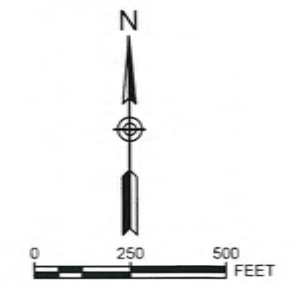
S31

S32

PWS # 2

PWS # 1

US HIGHWAY 93



- LEGEND**
- WELL (POD)
 - PLACE OF USE
 - ROADS & UTILITY CONVEYANCE
 - PROPOSED SUBDIVISION LOTS
 - SECTION LINE
 - TOWNSHIP LINE
 - STORAGE

No.	Description	Date Drawn By



Water & Environmental
Technologies
102 Cooperative Way
Kalispell, MT 59901
(406) 756-2550
WATERENTECH.COM

**LAKESIDE 1700
POD LOCATION MAP**

PROJECT NAME: LAKESIDE 1700 WATER RIGHT
LOCATION: LAKESIDE MONTANA
FILE NO.: Lakeside 1700 WR use.dwg

JOB NO:	1687-23
DATE:	10/24/24
DRAFTER:	JG
CHECKED BY:	BB

Attachment D

IWR Calculations

Irrigation Water Requirements

Crop Data Summary

Job: **Lake View Subdivision**

Location: **LAKESIDE**

By: **WILLIAMS**

Weather Station: **POLSON**

Latitude: **4741** Longitude: **11410**

Computation Method: **Blaney Criddle (TR21)**

Crop Curve: **Blaney Criddle Perennial Crop**

Begin Growth: **4/11** End Growth: **10/19**

Crop: **Pasture (turf grass correction)**

County: **Lake, MT**

Date: **06/17/21**

Sta No: **MT6635**

Elevation: **2990** feet above sea level

Net irrigation application: **1** inches

Estimated carryover moisture used at season:

Begin: **0.25** inches End: **0.25** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
		Effective Precipitation inches	Net Irrigation Requirements inches (2)	Effective Precipitation inches	Net Irrigation Requirements inches (2)		
January	0.00	0.00	0.00	0.00	0.00	0.00	
February	0.00	0.00	0.00	0.00	0.00	0.00	
March	0.00	0.00	0.00	0.00	0.00	0.00	
April	1.05	0.31	0.49	0.41	0.40	0.05	
May	3.38	0.88	2.50	1.14	2.24	0.11	0.13
June	4.85	0.91	3.94	1.19	3.67	0.16	0.19
July	6.26	0.58	5.68	0.75	5.51	0.20	0.25
August	5.60	0.61	4.99	0.79	4.81	0.18	0.22
September	3.07	0.55	2.52	0.72	2.36	0.10	0.12
October	1.07	0.26	0.56	0.33	0.48	0.06	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	25.28	4.10	20.68	5.32	19.46		

(1) For 80 percent occurrence, growing season effective precipitation will be equaled or exceeded 8 out of 10 years. For 50 percent chance occurrence, effective precipitation will be equaled or exceeded 1 out of 2 years.

(2) Net irrigation requirements is adjusted for carryover moisture used at the beginning of the season and carryover moisture used at the end of the growing season.

(3) ET Evapotranspiration) is adjusted upwards 10% per 1000 meters above sea level.

Date: 6/17/2021

Attachment E

Preliminary Hydraulic Calculations and Pump Specifications

Lake View Subdivision – Phase 1 Preliminary Hydraulic Analysis

The proposed Lake View Subdivision water supply system shall include two wells, booster pump station, an approximately 25-foot tall by 50-foot diameter bolted-steel storage tank, more than 25,000 lineal feet of 8", 10" and 12" water mains, and appurtenant valving, hydrants and controls. Each lot shall be provided with a HDPE, SDR 7 water service line, curb stop and meter box. The system is being designed by licensed professional engineers from Kimley-Horn and shall be approved by the Department of Environmental Quality (DEQ) prior to installation.

Two PWS wells were drilled and constructed in 2007 and are proposed to provide water service to the subdivision. Both wells were constructed in compliance with the specifications required by the Montana Board of Water Well Contractors, the Department of Natural Resources and Conservation (DNRC), and the DEQ for a PWS system. The wells are completed in a bedrock aquifer. A 72-hour aquifer pumping test was performed on PWS Well #1 and a 24-hour pumping test was performed on PWS Well #2. The wells are not capable of providing the full peak instantaneous demand, therefore a storage reservoir will be designed and utilized to provide water during periods of peak water use. The PWS wells were drilled and constructed by Marvin Sudan of Sudan Drilling (Montana License No. WWC-450). A summary of well completion details is provided in **Table 1**. Copies of the Montana Well Log Reports are included with the preliminary hydraulic calculations.

Table 1: Lake View Subdivision Well Completion Details

Well Completion Details		
	Well #1 (South)	Well #2 (North)
GWIC ID Number	237308	237309
Total Depth	640 feet	727 feet
Static Water Level (btoc)	341 feet btoc	365 feet btoc
Grout Seal Depth	38 feet bgs	38 feet bgs
Well Casing Diameter	8 inch	8 inch
Perforated Interval	602 to 620 feet bgs	668 to 686 feet bgs
Tested Pumping Rate	270 gpm	160 gpm
Pumping Water Level @ 8 hours	360 ft btoc	589ft btoc
Pumping Water Level @ 24 hours	363 ft btoc	587 ft btoc
Pumping Water Level @ 72 hours	365 ft btoc	n/a

Preliminary hydraulic assessments were completed for each well. Design calculations are provided below:

PWS Well #1 at 270 gpm:

- In-Well Conditions (Lift + Friction Loss)
 - Est. PWL = 365 ft
- Friction Losses
 - Friction Loss in 420 feet of 4-inch galvanized discharge pipe at 270 gpm = 23 ft
 - Friction Loss in 500 feet of 6-inch PVC water Main at 270 gpm = 2.5 ft
 - Friction Loss in 2,800 feet of 8-inch PVC water Main at 430 gpm = 8.5 ft
 - Friction Losses = 34 ft
- Elevation Head
 - Elevation at wellhead = 3,530 ft amsl
 - Elevation at tank = 3,725 + 25 ft = 3,750 ft amsl
 - Total Lift = 220 ft
- Estimated Total Dynamic Head (TDH) = PWL + Friction Losses + Elevation Gain
 - 365 ft + 34 ft + 220 ft = 619 ft

PWS Well #2 at 160 gpm:

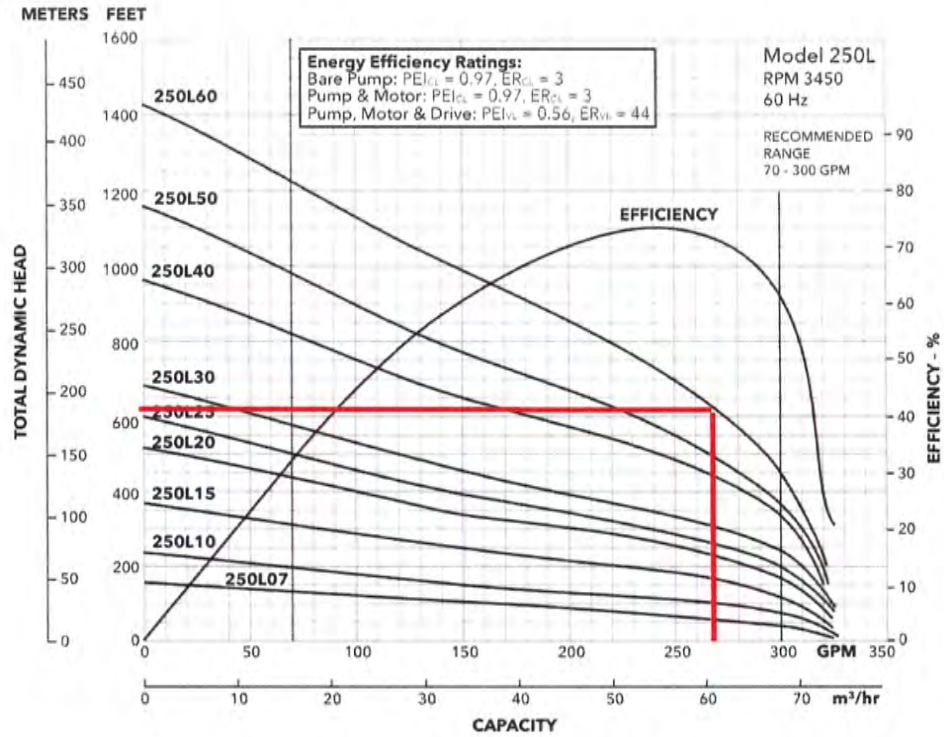
- In-Well Conditions (Lift + Friction Loss)
 - Est. PWL = 590 feet
- Friction Losses
 - Friction Loss in 640 feet of 4-inch galvanized discharge pipe at 160 gpm = 13.5 ft
 - Friction Loss in 2,800 feet of 8-inch PVC water Main at 430 gpm = 8.5 ft
 - Friction Losses = 22 ft
- Elevation Head
 - Elevation at wellhead = 3,530 ft amsl
 - Elevation at tank = 3,725 + 25 feet = 3,750 ft amsl
 - Total Lift = 200 ft
- Estimated Total Dynamic Head (TDH) = PWL + Friction Losses + Elevation Gain
 - 590 ft + 22 ft + 200 ft = 812 ft

The preliminary hydraulic assessment shows the conditions for pumping into a full storage tank. Pumping into the tank at lower water levels in the tank will produce a slightly lower total dynamic head (approximately 10-feet). Given the total dynamic head conditions at this site, the change in head associated with the level in the tank is negligible.

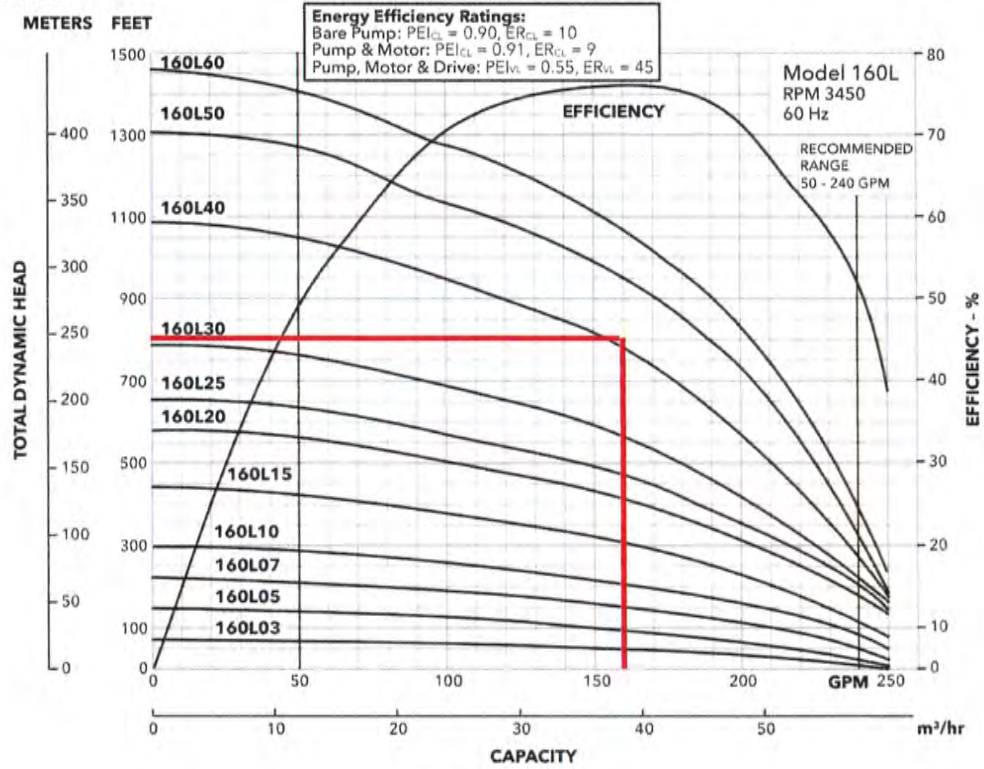
PWS Well #1 will be equipped with a Goulds model 250L60 submersible pump with 60-hp motor (or equal). The pump is rated to produce up to 270 gpm at 619 feet of TDH. Submersible pump specifications are provided with the preliminary calculations.

PWS Well #2 will be equipped with a Goulds model 160L50 submersible pump with 30-hp motor (or equal). The pump is rated to produce over 160 gpm at 812 feet of TDH. Submersible pump specifications are provided with the preliminary calculations. To limit the submersible well pump from exceeding 160 gpm, a flow control valve will be utilized to restrict the flow to 160 gpm.

MODEL 250L



MODEL 160L



MONTANA WELL LOG REPORT

Other Options

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.

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[View hydrograph for this site](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:20 AM\)](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:21 AM\)](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:21 AM\)](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:22 AM\)](#)

[View scanned hydrologic assessment \(1/8/2009 1:09:27 PM\)](#)

[View scanned aquifer test \(10/25/2012 10:33:34 AM\)](#)

Site Name: MONTANA EAGLE DEVELOPMENT
GWIC Id: 237308

Section 1: Well Owner(s)

1) MONTANA EAGLE DEVELOPMENT (MAIL)
EAGLE'S CREST
LAKESIDE MT 59922 [06/27/2007]
2) MONTANA EAGLE DEVELOPMENT (WELL)
EAGLE'S CREST
LAKESIDE MT 59922 [06/27/2007]

Section 2: Location

Township	Range	Section	Quarter Sections
26N	20W	30	SW¼ SE¼
County			Geocode
FLATHEAD			
Latitude	Longitude	Geomethod	Datum
47.586748	-114.131209	TRS-SEC	NAD27
Ground Surface Altitude	Ground Surface Method	Datum	Date
Addition	Block	Lot	
EAGLE'S CREST			

Section 3: Proposed Use of Water

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Wednesday, June 27, 2007

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	38	12.8
38	621	10
621	640	8

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	621	8	0.25		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
602	620	8	30	1"X 8"	TORCH OR PLASMA CUTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	38	BENTONITE	

Section 7: Well Test Data

Total Depth: 640
Static Water Level: 341
Water Temperature:

Air Test *

250 gpm with drill stem set at 600 feet for 2 hours.
Time of recovery 1 hours.
Recovery water level 341 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 #PWS-1

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	4	CLAY, GRAVEL
4	14	YELLOW ROCK
14	195	SOFT TAN ROCK
195	390	GRAY ROCK, TRACES OF BROWN ROCK
390	393	FRACTURED ROCK, WATER 5GPM
393	452	GRAY ROCK, TRACES OF BROWN ROCK
452	461	FRACTURED ROCK, WATER 20 GPM
461	549	GRAY & BROWN ROCK
549	572	FRACTURED ROCK, WATER 35 GPM
572	601	GRAY & BROWN ROCK
601	640	FRACTURED ROCK, WATER

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: MARVIN SUDAN
Company: SUDAN DRILLING
License No: WWC-450
Date Completed: 6/27/2007

MONTANA WELL LOG REPORT

Other Options

[Return to menu](#)

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[Plot this site in Google Maps](#)

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.

Site Name: MONTANA EAGLE DEVELOPMENT
GWIC Id: 237309

Section 7: Well Test Data

Total Depth: 727
Static Water Level:
Water Temperature:

Air Test *

100 gpm with drill stem set at 700 feet for 2 hours.
Time of recovery 1 hours.
Recovery water level 365.4 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 1: Well Owner(s)

1) MONTANA EAGLE DEVELOPMENT (MAIL)
EAGLE'S CREST
LAKESIDE MT 59922 [07/14/2007]
2) MONTANA EAGLE DEVELOPMENT (WELL)
EAGLE'S CREST
LAKESIDE MT 59922 [07/14/2007]

Section 2: Location

Township	Range	Section	Quarter Sections
26N	20W	30	SW¼ SE¼
County			Geocode
FLATHEAD			
Latitude	Longitude	Geomethod	Datum
47.978623	-114.222352	TRS-SEC	NAD83
Ground Surface Altitude	Ground Surface Method	Datum	Date
Addition	Block	Lot	
EAGLE'S CREST			

Section 3: Proposed Use of Water

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: ROTARY
Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Saturday, July 14, 2007

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	38	12.75
38	687	10
687	727	8

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	687	8	0.25		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
668	686	8	30	1" X 8"	TORCH OR PLASMA CUTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	38	BENTONITE	

Section 8: Remarks

WELL #PWS-2

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	27	FRACTURED GRAY ROCK
27	89	GREEN/GRAY ROCK
89	109	FRACTURED ROCK, WATER
109	615	GRAY/TAN ROCK
615	669	FRACTURED ROCK, WATER
669	688	GRAY/TAN ROCK
688	723	FRACTURED ROCK, WATER
723	727	GRAY/TAN ROCK

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: MARVIN SUDAN
Company: SUDAN DRILLING
License No: WWC-450
Date Completed: 7/14/2007



TECHNICAL BROCHURE

B50-320L R9



50L, 65L, 95L, 120L,
160L, 250L, 320L

6" Stainless Steel Submersible Pumps

60 HZ HIGH CAPACITY - FOR 6" AND LARGER WELLS



Residential Water Systems

FEATURES

Powered for Continuous Operation: All ratings are within the working limits of the motor. Pump can be operated continuously.

New Design Features: Cast 304 SS discharge head and motor adapter.

Field Serviceable: Easy to install and service. All parts easily dismantled if field service is ever necessary.

Diverse Application: Designed for commercial, municipal and agricultural water needs.

Stainless Steel Construction: Durable in most waters.

Bearings: Replaceable, silicon carbide bearings allow excellent abrasives handling and wear resistance.

Built-in Check Valve: Positive sealing, stainless steel check valve assembly incorporated into discharge head.

Impellers: New stainless steel impeller design provides improved efficiency.

Maximum Temperature: 140°F (60°C) for pump.

Four-Fluted Shaft Design: Four sided stainless steel shaft eliminates impeller keys and provides positive drive.

Coupling: Removable heavy duty stainless steel, splined coupling for maximum load-carrying capability.

Suction Strainer: Stainless steel strainer restricts gravel and other debris from entering the pump.

Cable Guard: Stainless steel cable guard surrounds and protects motor leads.

Fasteners: All fasteners are stainless steel.

Goulds Motors: Designed to NEMA standards. Stainless steel casing resists corrosion. Water filled design provides a constant supply of lubrication. Hermetically sealed stator assures moisture free windings. Durable Kingsbury type thrust bearing absorbs all thrust. Replaceable motor lead assembly.

Certified to NSF/ANSI 61, Annex G.

SPECIFICATIONS

Model	Horsepower Range	Discharge Connection	Recommended GPM Operating Range	GPM at Best Efficiency	Minimum* Well Size	Rotation at Discharge End
50L	3 - 20	3" NPT	17 - 70	50	6" / 8" *	CCW
65L	3 - 40		20 - 90	65		
95L	5 - 40		25 - 130	90		
120L	5 - 50		40 - 170	120		
160L	3 - 60		50 - 240	160	6"	
250L	7.5 - 60		70 - 300	250		
320L	7.5 - 60	4" NPT	100 - 400	320		

* Minimum well size refers only to dimensional fit in a well, the specifier or installer must determine the minimum required well diameter that will insure an adequate supply of water to the pump and also properly cool the motor. See Water End Data Chart for specific diameter by model number.

AGENCY LISTINGS



NSF/ANSI 372 - Drinking Water System Components - Lead Content

CLASS 6853 01 - Low Lead Content Certification Program - Plumbing Products



Pump/Water End - Drinking Water System Components - Certified to NSF/ANSI 61, Annex G

Residential Water Systems

"L" SERIES MATERIALS OF CONSTRUCTION

Ref. No.	Part Name	Material	Material Code
1	Discharge Head	Stainless steel	ASTM CF-8 (AISI 304 cast)
2	Check Valve Support	Stainless steel	ASTM CF-8 (AISI 304 cast)
3	Check Valve	Stainless steel	AISI 304 SS
4	Elastomers	Ethylene propylene	EPDM
5	Bolts and Screws	Stainless steel	AISI 304 SS
6	Shaft Sleeve and Bushing	Tungsten carbide	—
7	Thrust Bearing	PTFE+Graphite	—
8	Impeller	Stainless steel	AISI 304 SS
9	Diffuser	Stainless steel	AISI 304 SS
10	Spacer	Stainless steel	AISI 431 SS
11	Tie Rod	Stainless steel	AISI 304 SS
12	Cable Guard	Stainless steel	AISI 304 SS
13	Wear Rings	Technopolymer PPO	Engineered polymer
14	Strainer	Stainless steel	AISI 304 SS
15	Shaft	Stainless steel	AISI 431 SS
16	Shaft Coupling	Stainless steel	AISI 431 SS
17	Motor Adapter	Stainless steel	ASTM CF-8 (AISI 304 cast)

SYSTEM COMPONENTS

□ Pump/Water End:

- 50L-250L with 3" NPT discharge.
- 320L with 4" NPT discharge.
- 3 HP Water Ends Have 4" Motor Adapters
- 5 & 7.5 HP Water Ends Have Either a 4" or 6" Motor Adapter (see Water End Data chart)
- 10 HP and Larger Water Ends Have 6" Motor Adapters

□ Motor:

- 4" motor required for 3 HP and 5 HP pumps.
- 4" or 6" motors can be used for 7.5 HP pumps.
- 6" motor required for 10 HP and larger pumps.

□ Control Box: Required for all single phase motors.

□ Magnetic Starter: A magnetic starter with Class 10 overloads is required for all three phase units.

WATER ENDS AND MOTORS MUST BE ORDERED SEPARATELY AND ARE PACKAGED SEPARATELY.

ORDER NUMBER CODE

	65	L	03	Horsepower Code =
	50			HP
	65			03 = 3
	95			05 = 5 (4" motor)
	120			05-6 = 5 (6" motor)
	160			07-4 = 7.5 (4" motor)
	250			07 = 7.5 (6" motor)
	320			10 = 10
Pump Size/ Gallons per minute at Best Efficiency Point				15 = 15
				20 = 20
				25 = 25
				30 = 30
				40 = 40
				50 = 50
				60 = 60
Pump Series				

Residential Water Systems

WATER END (PUMP) DATA

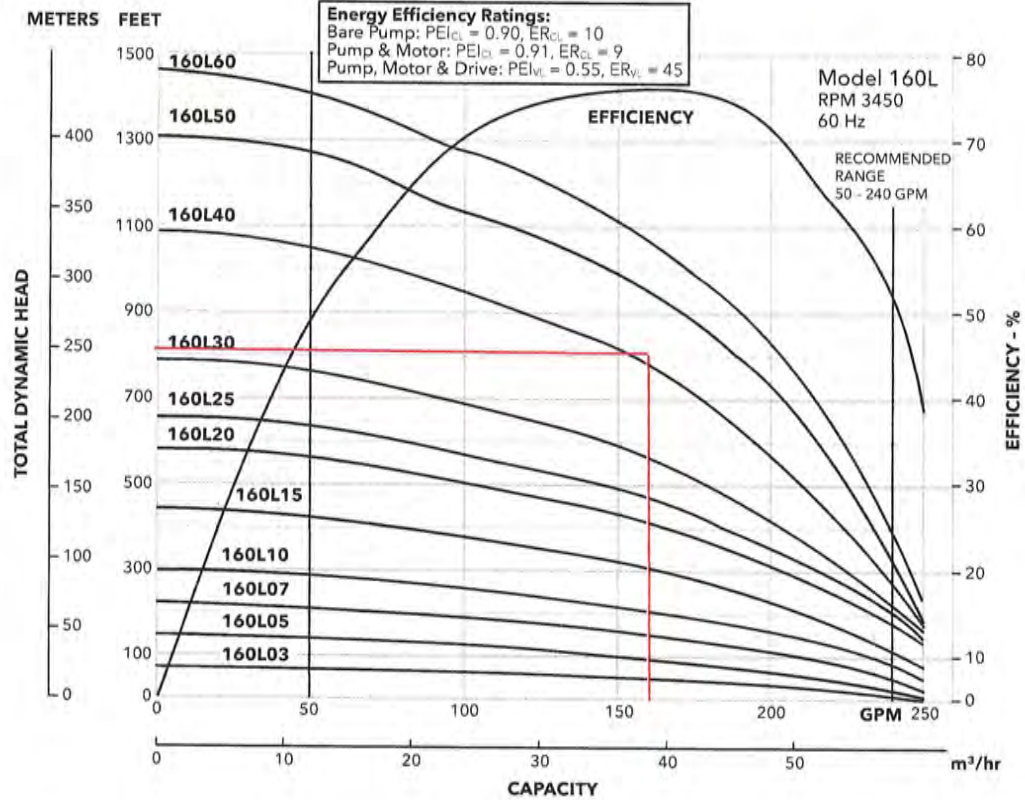
Model	Order No.	No. Stages	Min. HP Required	Required Motor Dia.	Dimensions & Weights					
					Length		Diameter		Weight	
					in.	mm	in.	mm	lbs.	kg.
50L	50L03	4	3	4	20.6	522	5.59	142	25	11
	50L05R**	7	5	4/6	25.8	656	5.67	144	35	16
	50L05**	8	5		27.8	706			40	18
	50L07**	11	7.5		33.3	844			49	22
	50L10	15	10	6	40.2	1020			57	26
	50L15	23	15		56.9	1446			82	37
	50L20	28	20		65.8	1670			94	43
65L	65L03	3	3	4	18.6	472	5.59	142	26	12
	65L05**	5	5	4/6	22.2	564	5.67	144	31	14
	65L07**	7	7.5		25.8	656			35	16
	65L10	10	10		31.3	794			44	20
	65L15	16	15	6	42.1	1070			60	27
	65L20	21	20		53.0	1346			75	34
	65L25	27	25		63.9	1622			90	41
	65L30*	32	30		98.7	2508	6.97*	177	220	100
	65L40*	41	40		115.0	2922			253	115
95L	95L05**	3	5	4/6	18.6	472	5.59	142	26	12
	95L07**	5	7.5	6	22.2	564	5.67	144	31	14
	95L10	7	10		25.8	656			35	16
	95L15	10	15		31.3	794			44	20
	95L20	14	20		38.5	978			53	24
	95L25	17	25		43.9	1116			62	28
	95L30	21	30		53.0	1346			75	34
	95L40*	28	40		67.3	1710	6.97*	177	156	71
	120L05**	2	5	4/6	16.8	426	5.59	142	22	10
	120L07**	3	7.5		19.5	495	5.67	144	26	12
120L	120L10	5	10		24.9	633			33	15
	120L15	7	15		30.4	771			40	18
	120L20	10	20		38.5	978			51	23
	120L25	12	25		43.9	1116			57	26
	120L30	15	30		52.1	1323			68	31
	120L40	20	40		65.7	1668			86	39
	120L50*	24	50		80.9	2055	6.97*	177	179	81
160L	160L03	1	3	4	14.5	367	5.59	142	18	8
	160L05**	2	5	4/6	17.2	436	5.67	144	22	10
	160L07**	3	7.5		19.9	505			26	12
	160L10	4	10		22.6	574			31	14
	160L15	6	15	6	28.0	712			37	17
	160L20	8	20		33.5	850			44	20
	160L25	9	25		36.2	919			46	21
	160L30	11	30		41.6	1057			53	24
	160L40	15	40		52.5	1333			68	31
	160L50	18	50		60.6	1540			77	35
	160L60	20	60		65.7	1668			86	39
250L	250L07**	2	7.5	4/6	20.8	528	5.67	144	26	12
	250L10	3	10	6	25.3	643			33	15
	250L15	5	15		34.4	873			44	20
	250L20	7	20		43.4	1103			55	25
	250L25	8	25		48.0	1218			60	27
	250L30	9	30		52.5	1333			66	30
	250L40	13	40		70.6	1793			88	40
	250L50	16	50		84.2	2138			104	47
	250L60	19	60		97.8	2484			128	58
320L	320L07**	2	7.5	4/6	21.8	553	5.67	144	27	12
	320L15	4	15	6	30.8	783			38	17
	320L20	5	20		35.4	898			45	20
	320L25	6	25		39.9	1013			50	22
	320L30	8	30		49.0	1243			61	27
	320L40	11	40		62.5	1588			78	35
	320L50	13	50		71.6	1818			89	40
	320L60	16	60		84.2	2138			104	47

* Note pump diameter - high pressure models have an exterior casing and larger diameters, verify they will fit your well.

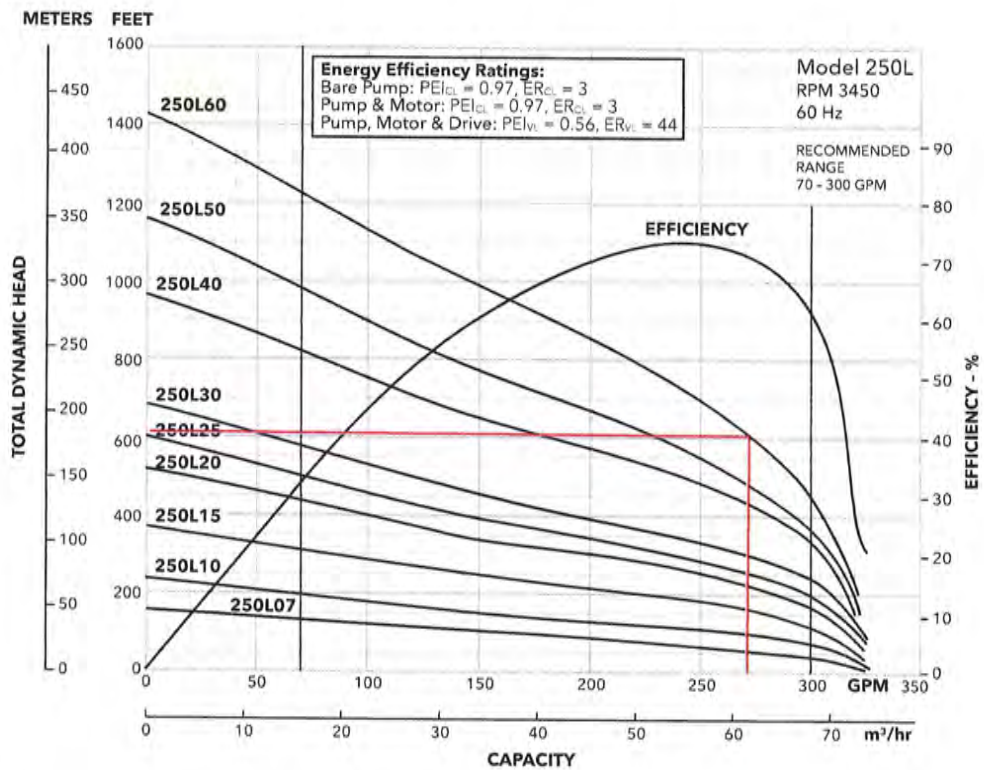
** Pumps can be configured to accommodate a 4" or 6" motor. See product order code.

Residential Water Systems

MODEL 160L



MODEL 250L



NOTE: On 250L, operation below minimum recommended flow will increase motor amp. draw and trip overloads.

Attachment F

Well Logs – GWIC 237308 & 237309

Other Options

[Plot this site in State Library Digital Atlas](#)

[Plot this site in Google Maps](#)

[View hydrograph for this site](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:20 AM\)](#)

[View scanned hydrologic assessment](#) (9/25/2008 8:27:21 AM)

[View scanned hydrologic assessment \(9/25/2008 8:27:21 AM\)](#)

[View scanned hydrologic assessment \(9/25/2008 8:27:22 AM\)](#)

[View scanned hydrologic assessment \(1/8/2009 1:09:27 PM\)](#)

[View scanned aquifer test \(10/25/2012 10:33:34 AM\)](#)

Section 7: Well Test Data

Total Depth: 640

Static Water Level: 341
Water Temperature:

Air Test *

250 gpm with drill stem set at 600 feet for 2 hours.
Time of recovery 1 hours.
Recovery water level 341 feet.
Pumping water level _ feet.

Recovery water level 341 feet.
Pumping water level feet.

Sampling 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 #PWS-1

Section 9: Well Log

Geologic Source

Unassigned

From	To	Description
0	4	CLAY, GRAVEL
4	14	YELLOW ROCK
14	195	SOFT TAN ROCK
195	390	GRAY ROCK, TRACES OF BROWN ROCK
390	393	FRACTURED ROCK, WATER 5GPM
393	452	GRAY ROCK, TRACES OF BROWN ROCK
452	461	FRACTURED ROCK, WATER 20 GPM
461	549	GRAY & BROWN ROCK
549	572	FRACTURED ROCK, WATER 35 GPM
572	601	GRAY & BROWN ROCK
601	640	FRACTURED ROCK, WATER

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: MARVIN SUDAN
Company: SUDAN DRILLING
License No: WWC-450
Date Completed: 6/27/2007

Date Completed: 6/27/2007

Name: MARVIN SUDAN
Company: SUDAN DRILLING
License No: WWC-450
Date Completed: 6/27/2007

Name: MARVIN SUDAN

Company: SUDAN DRILLING

License No: WWC-450

Date Completed: 6/27/2007

Date Completed: 6/27/2007

Date Completed: 6/27/2007

MONTANA WELL LOG REPORT

Other Options

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.

[Go to GWIC website](#)
[Plot this site in State Library Digital Atlas](#)
[Plot this site in Google Maps](#)

Site Name: MONTANA EAGLE DEVELOPMENT
GWIC Id: 237309

Section 7: Well Test Data

Total Depth: 727
Static Water Level:
Water Temperature:

Section 1: Well Owner(s)

1) MONTANA EAGLE DEVELOPMENT (MAIL)
EAGLE'S CREST
LAKESIDE MT 59922 [07/14/2007]

2) MONTANA EAGLE DEVELOPMENT (WELL)
EAGLE'S CREST
LAKESIDE MT 59922 [07/14/2007]

Section 2: Location

Township	Range	Section	Quarter Sections
26N	20W	30	SW¼ SE¼
County			Geocode
FLATHEAD			
Latitude	Longitude	Geomethod	Datum
47.978623	-114.222352	TRS-SEC	NAD83
Ground Surface Altitude		Ground Surface Method	Datum Date

** 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 #PWS-2

Section 9: Well Log

Geologic Source

Unassigned

[illegible]

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: MARVIN SUDAN
Company: SUDAN DRILLING
License No: WWC-450
Date Completed: 7/14/2007

Section 5: Well Completion Date

Date well completed: Saturday, July 14, 2007

Section 6: Well Construction Details

Borehole dimensions

From	To	Diameter
0	38	12.75
38	687	10
687	727	8

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type
-2	687	8	0.25		WELDED	A53B STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
668	686	8	30	1" X 8"	TORCH OR PLASMA CUTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	38	BENTONITE	



December 24, 2024

Rodney Olson
Lakeside County Water and Sewer District
253 Bierney Creek Road
Lakeside, MT 59922

Subject: Complete Preapplication Form for Beneficial Water Use Permit Application No. 76LJ 30165067

Dear Applicant,

The Kalispell Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your updated Preapplication Meeting Form and preapplication meeting fee on December 23, 2024, and the Department deems the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302.

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department will produce the technical analyses based on the parameters included in the Preapplication Meeting Form (ARM 36.12.1302(4)) within 45 days of December 23, 2024.

If you have any questions, please contact me at 406.752.2735 or Kristal.Kiel@mt.gov.

Best,

Kristal Kiel
Water Resources Specialist
Kalispell Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901



CC:

Brad Bennett
Senior Hydrologist
Water & Environmental Technologies
102 Cooperative Way, Suite 100
Kalispell, MT 59901





December 23, 2024

Kristal Kiel
DNRC Regional Office
655 Timberwolf Parkway, Suite 4
Kalispell, MT 59901

Re: Form 600P Preapplication Meeting Form Submittal for Lakeside County Water & Sewer District

Dear Kristal,

The following is provided in support of Beneficial Water Use Permit Application No. 76LJ 30165067.

Follow-Up Responses

5. The following calculations document the water use requested for the various purposes:

Multiple Domestic

359 Units x 250 gallons per day/unit = 89,750 gallons per day

89,750 gallons per day x 365 days per year = 32,758,750 gallons per year

32,758,750 gallons per year = 100.53 acre-feet per year

Commercial

Various commercial uses include a real estate office, restaurant, fitness/wellness facility, spa, golf club house, comfort stations, maintenance facilities, bar, located at the various amenities = 20,384 gallons per day

20,384 gallons per day x 365 days per year = 7,440,160 gallons per year

7,440,160 gallons per year = 22.83 acre-feet per year

Lawn and Garden Irrigation

Lawn and garden irrigation is anticipated to average 5,000 square feet (0.115 acres) per lot with an additional 10.0 acres of common area being irrigated for a total irrigated area of 51.21 acres. Irrigation water demands were determined using the U.S. Department of Agriculture's (USDA) Irrigation Water Requirements (IWR) software (Natural Resources and Conservation Services Version 1.0, March 1, 2003). The irrigation standard for sprinkler irrigation of pasture grass was corrected for turf grass per DNRC Guidelines entitled "DNRC Consumptive Use Methodology – Turf Grass" (March 23, 2010). The results of the IWR analysis indicate the net irrigation requirement in a dry year is 20.68 inches in the Polson area. Sprinkler irrigation in Climate Zone III is considered to be 70 percent efficient (ARM 36.12.115(1)(e)). Therefore, the irrigation requirement is 29.54

inches (2.46 ac-ft) per acre per annum. As indicated above, the proposed irrigated area is 51.21 acres. Therefore, the lawn and garden irrigation demand is 126.06 acre-feet per year.

7. The geocodes associated with the proposed place of use are provided in the following table:

07-3704-25-1-01-01-0000	07-3704-25-3-01-01-0000	07-3704-25-1-01-05-0000
07-3705-30-3-01-01-0000	07-3705-30-2-01-01-0000	07-3705-30-1-01-10-0000
07-3705-30-4-01-20-0000	07-3705-30-4-01-10-0000	07-3705-30-4-01-01-0000
07-3705-30-1-01-01-0000	07-3705-19-3-02-30-0000	07-3705-29-2-01-10-0000
07-3705-29-2-01-01-0000	07-3705-29-3-01-20-0000	07-3705-29-3-01-40-0000
07-3705-29-3-01-01-0000	07-3705-29-3-01-10-0000	07-3705-29-2-01-30-0000

The following attachments are provided in support of this pre-application:

Form 600P – Signed 12-23-2024

Form 600ATA – Aquifer Testing Addendum

Form 653 – Variance Request

POU and POD Map

Well Log Reports

If you have any questions regarding the information provided above or would like to discuss this matter in further detail, I can be reached at (406) 309-6083 or bbennett@waterenvtech.com.

Sincerely,

Brad Bennett

Brad Bennett, PG

Senior Hydrogeologist, Water & Environmental Technologies

Form 600P



PREAPPLICATION MEETING FORM PERMIT

§ 85-2-302

Form No. 600P (Revised 2/2024)

For Department Use Only

Application # 30165067 Basin 76LJ

Meeting Date 12/23/24 Time 10:00 AM/PM

Completed Form Deadline 6/21/2025

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)).

RECEIVED
DNRC Water Resources

DEC 23 2024

Kallispell Unit

Completed Form Received 12/23/24 15:35

Fee Rec'd \$ 500 Check # 1435

Deposit Receipt # K202509355

Payor WET

Refund \$ _____ Date _____

The Department will fill out Form No. 600P and will identify follow-up during the preapplication meeting. The Department and Applicant will sign the Preapplication Meeting Affidavit and Certification within five business days. Within 180 days of the preapplication meeting, the Applicant will complete identified follow-up on a separate document with the question numbers clearly labeled.

Applicant Information: Add more as necessary.

Applicant Name LAKESIDE COUNTY WATER & SEWER DISTRICT
Mailing Address 253 BIERNEY CREEK ROAD City LAKESIDE State MT Zip 59922
Phone Numbers: Home _____ Work 406-844-3881 Cell _____
Email Address RODNEYOLSON@LCWSD.NET

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

Contact/Representative Information: Add more as necessary.

Contact/Representative is: ☐ Applicant ☒ Consultant ☐ Attorney ☐ Other (describe) _____
Contact/Representative Name BRAD BENNETT - WATER & ENVIRONMENTAL TECHNOLOGIES
Mailing Address 102 COOPERATIVE WAY, SUITE 100 City KALLISPELL State MT Zip 59901
Phone Numbers: Home _____ Work 406-309-6085 Cell _____
Email Address BBENNETT@WATERENVTECH.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.

Meeting Attendees: Add more as necessary.

Name	Organization	Position
<u>JE/KK/TW</u>	<u>DNRC</u>	<u>KRO</u>
<u>BRAD BENNETT</u>	<u>WET</u>	<u>SENIOR HYDROLOGIST</u>

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Application Details

The following questions are mandatory and must be filled out before the Preapplication Meeting Form is determined to be complete. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment ("A") checkbox on this form and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses. Responses in the form of a table may be entered into the table provided on this form or in an attachment. Responses in the form of a table that are larger than the table provided on this form should be placed 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. For tables in this form, circle correct unit at header of column when faced with a choice of units. For tables in attachments, label all units. 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".

Questions, Narrative Responses, and Tables					Check-boxes	Follow-Up
1.	Do you elect to have DNRC conduct Technical Analyses?				☒ Y ☐ N	☐ F
2.	Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance structures, all proposed places of storage, and places of use for all overlapping water rights.				☒ S	☐ F
3.	Is the project located in a Controlled Groundwater Area or Basin Closure Area? If yes, immediately go to Project-Specific Questions 47 to 52 because Form 600 may be the incorrect form, or this project may not meet the requirements for the Department to accept a Form 600.				☐ Y ☒ N	☐ F
4.	Is the proposed use temporary?				☐ Y ☒ N	☐ F
	a. If yes, when will the appropriation cease? _____				☐ A	☐ F
5.	Describe the proposed purpose information, including period of diversion (MM/DD-MM/DD), period of use (MM/DD-MM/DD), flow rate (GPM or CFS) and volume (AF).				☐ A	☐ F
Purpose	Period of Diversion (MM/DD-MM/DD)	Period of Use (MM/DD-MM/DD)	Flow Rate Flow Rate	GPM	CFS	Volume (AF)
MULTIPLE DOMESTIC	1/1-12/31	1/1-12/31	430	☒		100.53
COMMERCIAL	1/1-12/31	1/1-12/31	430	☒		22.83
LAWN & GARDEN	4/18-10/13	4/18-10/13	430	☒		126.06
Total			430	☒		249.42

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

POD #	1/4	1/4	1/4	1/4	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov Lot	SW or GW	Source Name	Means
1	SE	SW	SE	SE	30	26N	20W	FLATHEAD				Lake View		GW	GW	WELL
2	NE	SW	SE	SE	30	26N	20W	FLATHEAD				Lake View		GW	GW	WELL

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

see attached table	☐ A	☐ F

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

Acres	Gov't Lot	Block	1/4	1/4	1/4	1/4	Sec	Twp	Rge	County
15.07							25	26N	21W	FLATHEAD
18.25							30	26N	20W	FLATHEAD
16.79							29	26N	20W	FLATHEAD
1.10							19	26N	20W	FLATHEAD
51.21	Total									

9. Will other water right(s) supplement or overlap the place of use to contribute to the purpose(s)?

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

10. For each supplemental or overlapping water right, please list the water right number, purpose, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed.				☐ A	☐ F
Water Right No.	Avg. Period of Diversion (MM/DD-MM/DD)	Avg. Period of Use (MM/DD-MM/DD)	Flow Rate (GPM or CFS)	Volume Contributed (AF)	

11. Will this application supplement contract water from a Federal Project, ditch company, or other source? a. If yes, explain.	☐ Y ☐ N	☐ F
12. Does the project involve one or more place(s) of storage with a capacity of greater than 0.1 acre-feet? This does not include storage tanks and cisterns. If yes, answer questions 53 to 61 for place of storage.	☐ Y ☐ N	☐ F
13. Does the project involve one or more conveyance ditches? If yes, answer questions 62 to 64 for ditch-specific questions.	☐ Y ☐ N	☐ F
14. Does the project involve an appropriation that is greater than 5.5 CFS and 4,000 AF? If yes, you must submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B) with application submittal. The criteria are found in §85-2-311(3), MCA.	☐ Y ☐ N	☐ F
15. Will you be transporting water for use outside of Montana? If yes, you will need 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
16. Does the project include the water marketing purpose? If yes, answer questions 65 to 71 for water marketing. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.	☐ Y ☐ N	☐ F
17. Is the project located in designated sage grouse habitat? If yes, you must have a consultation with and review of your project by the Montana Sage Grouse Habitat Conservation Program. The review letter will be required at application submittal.	☐ Y ☐ N	☐ F

Surface Water

☐ **Applicable**, move on to question 18. ☒ **Not Applicable**, skip to question 29.

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

Surface Water: Physical Availability

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

19. What is the source type of the surface water diversion?					☐ A	☐ F
---	--	--	--	--	----------------------------	----------------------------

Perennial or intermittent	Answer question 20	Ephemeral	Answer questions 22 to 24	Lakes	Answer question 25	Other	Answer question 26
---------------------------	--------------------	-----------	---------------------------	-------	--------------------	-------	--------------------

Surface Water: Physical Availability: Perennial or Intermittent

☐ Applicable ☐ Not Applicable

20. Is stream gage data available?								☐ Y ☐ N	☐ F
a. If yes, answer the following questions related to the number of stream gages that are available.									
i. One stream gage is available									
1. What is the gage name?									☐ F

2. Who operates and maintains the gage? _____		☐ F
3. Is the stream gage upstream or downstream of point(s) of diversion? _____		☐ F
4. Is there a limiting or controlling factor that would make the Drainage Area Method not practical? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, please contact the Regional Hydro-Specialist or the Water Sciences Bureau.	☐ Y ☐ N	☐ F
5. Is the period of record greater than or equal to 10 years? _____	☐ Y ☐ N	☐ F
6. How frequently is stage data recorded? _____		☐ F
7. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N	☐ F
8. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	☐ Y ☐ N	☐ F
9. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion? a. If yes, this section is complete. Skip to question 27. b. If no, answer question 20.b. ii. More than one stream gage is available 1. List the gage names. _____	☐ Y ☐ N	☐ F
2. Who operates and maintains the gages? _____		☐ F
3. Is one stream gage upstream and one downstream of point(s) of diversion?	☐ Y ☐ N	☐ F
4. Do the stream gages have similar periods of record?	☐ Y ☐ N	☐ F
5. Are the periods of record each greater than or equal to 10 years?	☐ Y ☐ N	☐ F

6. How frequently is stage data recorded at each gage?		☐ F
7. For each gage, if data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N	☐ F
8. Were the rating curves established and maintained throughout the duration of the period of record using measurements taken near the reference gages and stage recorders according to USGS protocols?	☐ Y ☐ N	☐ F
9. For each gage, were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	☐ Y ☐ N	☐ F
a. If yes, this section is complete. Skip to question 27.		
b. If no, answer question 20.b.		
b. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured?	☐ Y ☐ N	☐ F
i. If yes,		
1. Submit available measurements to the Department.	☐ S	☐ F
2. Who collected the measurements?	☐ A	☐ F
3. With what method was the data collected?	☐ A	☐ F
4. What is the period of record?		☐ F
5. What is the frequency of measurement?		☐ F
6. Are there gaps in the data?	☐ Y ☐ N	☐ F

a. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	☐ A	☐ F
7. Is there a process for maintaining the data and meeting specified accuracy limits? a. If yes, explain. _____ _____ _____	☐ Y ☐ N	☐ F
8. Does available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion? a. If yes, this section is complete. Skip to question 27. b. If no, answer question 21.	☐ Y ☐ N	☐ F
21. Does the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?	☐ Y ☐ N	☐ F
a. If yes, describe the estimation technique. _____ _____ _____ _____	☐ A	☐ F
b. If no,		
i. Will measurements be collected prior to submission of a completed Form No. 600P that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?	☐ Y ☐ N	☐ F
1. If yes, a. With what method will the data be collected? _____ _____ _____	☐ A	☐ F

b. What will be the interval of measurement?		☐ F
c. Describe the proposed estimation technique.	☐ A	☐ F
2. If no,		
a. Describe your plan to comply with the requirements of ARM 36.12.1702(1).	☐ A	☐ F
b. Do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(1)(b)?	☐ Y ☐ N	☐ F

Surface Water: Physical Availability: Ephemeral

☐ Applicable ☒ Not Applicable

22. If you will conduct Technical Analyses, what is your plan to calculate mean annual runoff? If DNRC will conduct Technical Analyses, write N/A.	☐ A	☐ F
23. Where do you plan to obtain climate and drainage area data?	☐ A	☐ F
24. Where is the downstream point of diversion, which will be used to delineate the drainage basin?	☐ A	☐ F

Surface Water: Physical Availability: Lakes

☐ Applicable ☒ Not Applicable

25. Do you have a design plan?	☐ Y ☐ N	☐ F
a. If yes, provide the design plans to DNRC	☐ S	☐ F
b. If no, has the lake volume been quantified by a qualified entity based on bathymetric data?	☐ Y ☐ N	☐ F
i. If yes, provide this information to DNRC.	☐ S	☐ F
ii. If no, answer the following questions,		
1. When do you plan to collect this information? _____		☐ F
2. With what method will it be collected? _____ _____	☐ A	☐ F

Surface Water: Physical Availability: Other

☐ Applicable ☒ Not Applicable

26. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, answer the following questions,		
i. With what method was the data collected? _____ _____	☐ A	☐ F
ii. What is the measurement interval? _____		☐ F
1. Does the interval meet the requirements of 36.12.1702(4)?	☐ Y ☐ N	☐ F
b. If no or if the measurement interval does not meet the requirements of 36.12.1702(4)		
i. When do you plan to measure? _____		☐ F
ii. With what method will the measurements be collected? _____ _____ _____	☐ A	☐ F

Surface Water: Identification of Legal Demands in Area of Potential Impact

27. If you are conducting Technical Analysis, how will the Area of Potential Impact be defined? If Department is conducting Technical Analyses, write N/A.	☐ A	☐ F

Surface Water: Basin Closure Area

28. Is the project located in a Basin Closure Area? If yes, explain how the project meets a closure exception. More information about basin closures online at: https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas . Answer the follow-up questions for specific Basin Closure Areas in the "Project-Specific Questions: Controlled Groundwater Areas and Basin Closures" section (questions 51 to 52).	☐ Y ☐ N	☐ F

Groundwater

☒ **Applicable**, move on to question 29. ☐ **Not Applicable**, skip to question 47.

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

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
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Groundwater: Physical Availability

29. What is the type of groundwater diversion? <u>WELLS (2)</u>			
Well/Pit	Answer questions 30 to 32	Developed Spring	Pond
			Answer questions 34 to 38
			☒ A ☐ F

Groundwater: Physical Availability: Well/Pit

☒ Applicable ☐ Not Applicable

30. Provide the Aquifer Testing Addendum (Form 600-ATA). This form will be required before the Preapplication Meeting Form is deemed complete.	☒ S		☐ F
31. Have you submitted a completed Form 633 to DNRC for review?	☒ Y ☐ N		☐ F
a. If no, submit Form 633 to DNRC for review. Form 633 is required by the time the Preapplication Meeting Form is deemed complete.	☐ S		☐ F
b. If yes, did the Department identify deficiencies?	☒ Y ☐ N		☐ F
i. If yes, are variances from ARM 36.12.12I needed?	☒ Y ☐ N		☐ F
1. If yes,			
a. Do you have data for aquifer characteristics?	☒ Y ☐ N		☐ F
i. If yes, provide the data to the Department.	☐ S		☐ F
b. Have you submitted Form 653 to the Department?	☒ Y ☐ N		☐ F
i. If yes, was the variance granted?	☒ Y ☐ N		☐ F
32. Do you have a map with the location of each well/pit labeled and, if available, with the GWIC ID?	☒ Y ☐ N		☐ F
a. If no, have all the wells/pits been constructed?	☐ Y ☐ N		☐ F

i. If yes, provide a map with the wells/pits labeled and, if available, with the GWIC ID. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	☐ S	☐ F
ii. If no, answer the following questions,		
1. When will the wells/pits be constructed?		☐ F
2. Do you have an initial map with the proposed location of wells/pits?	☐ Y ☐ N	☐ F
a. If yes, provide an initial map to the Department. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	☐ S	☐ F
3. Is the requested volume for each new well/pit known?	☐ Y ☐ N	☐ F
a. If no, what is the total requested volume (AF) and the number of new PODs?		☐ F

Groundwater: Physical Availability: Developed Spring

☐ Applicable ☐ Not Applicable

33. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, answer the following questions,		
i. Do you have flow rate (GPM or CFS) and volume measurements?	☐ Y ☐ N	☐ F
ii. With what method were measurements collected?	☐ A	☐ F
iii. What is the interval of measurements?		☐ F
iv. Is the interval of measurements sufficient to comply with ARM 36.12.1703(1)?	☐ Y ☐ N	☐ F
b. If no, or if measurements do not comply with ARM 36.12.1703(1),		
i. When do you plan to measure?		☐ F

ii. With what method and at what interval will measurements be collected?	☐ A	☐ F
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Groundwater: Physical Availability: Ponds

☐ Applicable ☒ Not Applicable

34. Have you submitted Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test?	☐ Y ☐ N	☐ F
a. If yes, did the Department approve the variance request?	☐ Y ☐ N	☐ F
35. Have you submitted measurements to the Department? If yes, describe.	☐ Y ☐ N	☐ F
36. Submit pond bathymetry data, survey, or engineering plans to the Department.	☐ S	☐ F
37. Please submit a map identifying the location of the proposed pond to the Department. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	☐ S	☐ F
38. If you are conducting Technical Analyses, what is your plan to determine depth, surface area, and net evaporation of the pond? If DNRC is conducting Technical Analyses, write N/A.	☐ A	☐ F

Groundwater: Identification of Groundwater Legal Demands

All information to calculated Zone of Influence was collected in previous questions.

Groundwater: Adverse Effect to Existing Groundwater Rights

All information to calculate One-Foot Drawdown Contour was collected in previous questions.

Groundwater: Physical Availability of Depleted Surface Water Source(s)

39. What are the hydraulically connected surface water source(s)? Flathead River (Flathead Lake)		☐ F
40. For each hydraulically connected surface water source, is gage data available?	☒ Y ☐ N	☐ F
a. If yes, answer the following questions for the number of stream gages that are available.		

i. One stream gage is available			
1. What is the gage name? FLATHEAD RIVER NEAR POLSON 12372000			☐ F
2. Who operates and maintains the gage? USGS			☐ F
3. Is the stream gage upstream or downstream of point(s) of diversion? DOWNSTREAM			☐ F
4. Is there a limiting or controlling factor that would make the Drainage Area Method not practical? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, please contact the Regional Hydro-Specialist or the Water Sciences Bureau.		☒ Y ☐ N	☐ F
5. Is the period of record greater than or equal to 10 years?		☒ Y ☐ N	☐ F
6. How frequently is stage data recorded? 15 MINUTES			☐ F
7. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?		☐ Y ☒ N	☐ F
8. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?		☒ Y ☐ N	☐ F
9. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?		☒ Y ☐ N	☐ F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?		☒ Y ☐ N	☐ F
a. If yes, this section is complete. Skip to question 42.			
b. If no, answer question 40.b.			
ii. More than one stream gage is available			
1. List the gage names.			☐ F
2. Who operates and maintains the gages?			☐ F
3. Is one stream gage upstream and one downstream of point(s) of diversion?		☐ Y ☐ N	☐ F

4. Do the stream gages have similar periods of record?	☐ Y ☐ N	☐ F
5. Are the periods of record each greater than or equal to 10 years?	☐ Y ☐ N	☐ F
6. How frequently is stage data recorded at each gage? _____		☐ F
7. For each gage, if data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N	☐ F
8. Were the rating curves established and maintained throughout the duration of the period of record using measurements taken near the reference gages and stage recorders according to USGS protocols?	☐ Y ☐ N	☐ F
9. For each gage, were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	☐ Y ☐ N	☐ F
a. If yes, this section is complete. Skip to question 42.		
b. If no, answer question 40.b.		
b. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured?		
i. If yes,		
1. Submit measurements to the Department.	☐ S	☐ F
2. Who collected the measurements? _____	☐ A	☐ F
3. With what method was the data collected? _____ _____	☐ A	☐ F
4. What is the period of record? _____		☐ F
5. What is the frequency of measurement? _____		☐ F
6. Are there gaps in the data?	☐ Y ☐ N	☐ F

a. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality _____ _____ _____	☐ A	☐ F
7. Is there a process for maintaining the data and meeting specified accuracy limits? a. If yes, explain. _____ _____ _____	☐ Y ☐ N ☐ A	☐ F ☐ F
8. Does available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion? a. If yes, this section is complete. Skip to question 42. b. If no, answer question 41.	☐ Y ☐ N	☐ F
41. For each hydraulically connected surface water source, does the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?	☐ Y ☐ N	☐ F
a. If yes, describe the estimation technique. _____ _____ _____	☐ A	☐ F
b. If no, i. Will measurements be collected prior to submission of a completed Form No. 600P 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? 1. If yes,	☐ Y ☐ N	☐ F
a. With what method will the data be collected? _____ _____ _____	☐ A	☐ F

b. What will be the interval of measurement?		☐ F
c. Describe the proposed estimation technique.	☐ A	☐ F
2. If no, describe your plan to comply with the measurement requirements for hydraulically connected surface water sources.	☐ A	☐ F

Groundwater: Legal Availability of Depleted Surface Water Source(s)

All information to determine legal demands for depleted surface water source(s) was collected in previous questions.

Groundwater: Adequacy of Diversion

Questions, Narrative Responses, and Tables					Check-boxes	Follow-Up
42. What is the flow rate (GPM or CFS), volume (AF), and period of diversion required (MM/DD-MM/DD) at each groundwater point of diversion? If the POD is a well, provide the well depth (FT), if available, or estimated well depth (FT). Please use the same POD # as the project map (question 2) to match this information with the location information.					☐ A	☐ F
POD #	Flow Rate (GPM or CFS)	Volume (AF)	Period of Diversion (MM/DD-MM/DD)	Well Depth (FT)	Measured or Estimated	
1	270	156.61	1/1-12/31	640	M	
2	160	92.81	1/1-12/31	727	M	

43. Will the monthly pumping schedule differ from an allocation of diverted volume by the number of days in the month for year-round uses or the IWR 80% net irrigation requirements for irrigation/lawn & garden uses (IWR, NRCS 2003)?	☐ Y ☒ N	☐ F
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a. If yes, provide the alternative pumping schedule in the table below. Use the same POD # as the project map (question 2).					☐ A	☐ F
Month	POD #	Volume (AF)	Month	POD #	Volume (AF)	
January			July			
February			August			
March			September			
April			October			
May			November			
June			December			

Groundwater: Basin Closure Area

44. Are the point(s) of diversion located in a basin closure area? If yes, fill out questions 45 to 46.	☐ Y ☒ N	☐ F
45. Did you elect in question 1 for the Department to conduct Technical Analysis?	☐ Y ☐ N	☐ F
a. If yes, the Basin Closure Area Addendum (Form 600-BCA), Hydrogeologic Report Addendum (Form 600-HRA), and Hydrogeologic Report are not required at this time. The Department's Technical Analyses will meet requirements of §85-2-360 for Form 600-HRA. Form 600-BCA will be required with application submittal.		
b. If no, submit the Basin Closure Area Addendum (Form 600-BCA), Hydrogeologic Report Addendum (600-HRA), and Hydrogeologic Report with your Technical Analysis.	☐ S	☐ F
46. If the Hydrogeologic Report indicates that the proposed groundwater use will impact a surface water source, which of the following three options best describe your plan to mitigate depletions of hydraulically connected surface water? A separate Preapplication Meeting will be required for each application to change a water right to a mitigation or aquifer recharge purpose to maintain expedited timelines and reduced filing fees for the project.		
a. Application to Change a Water Right to mitigate the adverse effects created.	☐ Y ☐ N	☐ F
b. Alternative mitigation plan.	☐ Y ☐ N	☐ F
c. Documentation to show a mitigation plan is not required.	☐ Y ☐ N	☐ F

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.

Questions, Narrative Responses, and Tables	Check-boxes	Follow-Up
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Project-Specific Questions: Controlled Groundwater Areas and Basin Closures

47. Is the project located in the East Valley Controlled Groundwater Area?	☐ Y ☒ N	☐ F
a. If yes,		
i. Do you have written approval from (1) Lewis and Clark County Board of Health, (2) Lewis and Clark County Water Quality Protection Bureau, (3) the U.S. Environmental Protection Agency, (4) the Montana State Dept. of Environmental Quality and (5) the Montana State Dept. of Natural Resources and Conservation? If the agencies have established a Technical Advisory Group, prior approval by the Technical Advisory Group satisfies this requirement.	☐ Y ☐ N	☐ F
ii. Is the project in Zone 2?	☐ Y ☐ N	☐ F
i. If yes, provide in the written approval the following recommendations which will also be included as conditions on the appropriation.	☐ S	☐ F
a. Well design and construction requirements necessary to measure the water level and water quality for any well;		
b. Water level measurement and water quality sample reporting requirements for any new well;		
c. Any other requirements necessary to ensure new wells can be operated in a manner consistent with purpose of the EVCGBA.		
iii. Is the project in Zone 1? If yes, a Form 600 cannot be accepted by the Department.	☐ Y ☐ N	☐ F
48. Is the project located in the South Pine Controlled Groundwater Area?	☐ Y ☒ N	☐ F
a. If yes, have you completed an Application for Beneficial Water Use Permit South Pine Controlled Groundwater Area Addendum? The addendum needs to be completed by application submittal.	☐ Y ☐ N	☐ F
49. Is the project located in the Yellowstone Controlled Groundwater Area?	☐ Y ☒ N	☐ F
a. If yes, is the use over 35 GPM or 10 AF per year?	☐ Y ☐ N	☐ F
i. If no, this is the incorrect form. Use instead the Yellowstone Controlled Groundwater Area Permit Application (600-YCGA).		
ii. If yes, answer the remaining parts of question 49. A Yellowstone Controlled Groundwater Area Addendum (600 Y over 35) will be required with application submittal.		
1. Does the proposed use require a point of diversion with water temperature of 60 degrees Fahrenheit or more?	☐ Y ☐ N	☐ F
2. What is the ground elevation at the point of diversion?		☐ F

3. What is the specific conductance at the point of diversion?		☐ F
4. If an application is in a basin tributary to a category 3 or 4 stream (generally in or upstream of YNP), provide a report prepared by a professional qualified in the science of groundwater hydrology, verifying that the appropriation is not hydrologically connected to surface flow that is tributary to the reserved portion of category 3 or 4 streams.	☐ S	☐ F
50. Is the project located in one of the Controlled Groundwater Areas listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas)?	☐ Y ☐ N	☐ F
a. If yes, list which one and describe how the proposed project meets the requirements of the Controlled Groundwater Area. An application must meet the specific requirements of the Controlled Groundwater Area to be accepted by the Department.	☐ A	☐ F
51. Is the project located in one of the administrative, Department ordered, or legislative closures listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas)?	☐ Y ☐ N	☐ F
a. If yes, list which one and describe how the proposed project meet the requirements of the closure. An application must meet the specific requirements of the closure to be accepted by the Department.	☐ A	☐ F
52. Is the project located in one of the compact closures listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas)?	☐ Y ☐ N	☐ F
a. If yes, list which one and describe how the proposed project meet the requirements of the compact closure. An application must meet the specific requirements of the compact closure to be accepted by the Department.	☐ A	☐ F

Project-Specific Questions: Place of Storage

53. Does the proposal include at least one place of storage? If yes, answer questions 54 to 61 for each individual place of storage (use Additional Place of Storage Sheet for additional places of storage). If no, this section is complete, and you can skip to question 62.	☐ Y ☒ N	☐ F
54. Provide a map showing the location of the place of storage. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	☐ S	☐ F
55. Is this application to enlarge an existing reservoir?	☐ Y ☐ N	☐ F
a. If yes, what is the water right number for the existing reservoir? _____		☐ F
56. Is the place of storage located on-stream?	☐ Y ☐ N	☐ F
a. If no, explain the conveyance means to and from the off-stream place of storage and any losses that may occur with that conveyance. _____ _____ _____	☐ A	☐ F
57. What is the capacity of the proposed place of storage or the existing place of storage after it is enlarged? Use bathymetry data, survey, or engineering plans for capacity. Submit the data source used with this form. In lieu of these data sources, use the following equation: $Surface\ Acres \times Maximum\ Depth\ (FT) \times 0.5\ (0.4-0.6\ depending\ on\ side\ slope) = Capacity\ (AF)$ _____	☐ A	☐ F
58. Will the place of storage include primary and/or emergency spillways? Preliminary design specifications for primary and emergency spillways must be included with application submittal (ARM 36.12.113).	☐ Y ☐ N	☐ F
59. Will the place of storage be lined?	☐ Y ☐ N	☐ F
60. What is the annual net evaporation of water from the place of storage using the standards in ARM 36.12.116(1)? Gridded net evaporation layer is available from DNRC upon request. _____		☐ F
61. Is the place of storage capacity calculated to be greater than 50 acre-feet?	☐ Y ☐ N	☐ F
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	☐ F

Project-Specific Questions: Ditch-Specific Questions

62. Does the proposal include at least one conveyance ditch? If yes, answer question 63 and, for each ditch, answer question 64. If no, this section is complete, and you can skip to question 65.	☐ Y ☒ N	☐ F
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63. Submit a Ditch Map that shows every ditch conveying water for the proposed project. Label the ditch name(s), POD(s), the POU(s), and the ditch measurement locations (requested in question 64.c). The map should be created on an aerial photograph or topographic map with the following: section corners, township and range, and a north arrow.	☐ S	☐ F
64. For each conveyance ditch, answer the following. If there is more than one conveyance ditch, use an Additional Ditch Sheet for each additional conveyance ditch.		
a. What is the ditch name? _____		☐ F
b. 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
c. 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 63.	☐ S	☐ F
ID #	Width (FT)	Depth (FT)
		Slope (%)
		Date of Measurement

d. 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
e. What type of soils compose the proposed conveyance ditch? For lined ditches, write "lined" instead. _____	☐ A	☐ F
f. Are other water rights conveyed by the conveyance ditch? i. If yes, 1. What are the water right numbers? _____	☐ Y ☐ N	☐ F
	☐ A	☐ F

2. What is the sum of the flow rates (GPM or CFS) for water rights conveyed?	☐ A	☐ F
3. Provide a map with your best estimate of where the existing POUs begin for the other water rights conveyed by the conveyance ditch for all POUs between the proposed POD and your proposed POU. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	☐ S	☐ F

Project-Specific Questions: Water Marketing

65. Does the proposal include water marketing? If yes, please answer the questions in this section (questions 66 to 71). If no, this section is complete, and you can skip to question 72.	☐ Y ☒ N	☐ F
66. Identify the flow rate (GPM or CFS) and volume (AF) of water that will be marketed.		☐ F
67. Will the marketed water return to the source?	☐ Y ☐ N	☐ F
a. Explain how this determination was made.	☐ A	☐ F
68. For what purpose(s) will the marketed water be used?	☐ A	☐ F
69. How will you control or limit access to the water?	☐ A	☐ F
70. Do you have contracts for the entire volume and flow rate sought?	☐ Y ☐ N	☐ F
71. Provide a service area map. Create map on an aerial photograph or topographic map and shows the following: general service area boundary, section corners, township and range, and a north arrow.	☐ S	☐ F

Non-Mandatory Questions for Criteria Analysis

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

Adverse Effect

Questions, Narrative Responses, and Tables	Check-boxes
72. Do you have evidence that water is legally available in the proper flow rate, volume, and timing?	☐ Y ☐ N
73. If water is not found to be legally available for part or all the proposed period of diversion, what is the plan to address this with the permitting process? SEEK AN ALTERNATIVE SOURCE OF WATER OR SEEK MITIGATION.	☐ A
74. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. THE WET "4-STEP PLAN".	☐ A
75. Explain how you can control your diversion in response to call being made. PUMP CAN BE SHUT OFF WITH A POWER CONTROLLER.	☐ A
76. Are you aware of any calls that have been made on the source of supply or depleted surface water source? a. If yes, explain.	☐ Y ☐ N ☐ A
77. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	☐ Y ☐ N

Adequate Diversion Means and Operation

78. Provide a diagram of how you will operate your system from the point of diversion to the place of use.	☐ S
79. 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. WILL SUPPLY IN THE APPLICATION SUBMITTAL.	☐ A

80. Is the diversion capable of providing the full amount requested through the period of diversion?	☒ Y ☐ N
81. Describe the size and configuration of infrastructure to convey water from point of diversion to place of use. This may include, where applicable: ditch capacity and/or pipeline size and configuration. WILL SUPPLY IN THE APPLICATION SUBMITTAL.	☐ A
82. Describe any losses related to conveyance. NO VOLUMETRIC LOSSES ARE PROJECTED AS THE SYSTEM WILL UTILIZE PIPELINES FOR CONVEYANCE.	☐ A
83. Is the conveyance infrastructure capable of providing the required flow and volume and any losses?	☒ Y ☐ N
84. Does the proposed conveyance require easements?	☐ Y ☒ N
a. If yes, explain.	☐ A
85. Describe any places of storage, including whether drainage devices will be installed, and provide preliminary designs, if available. Preliminary designs will be required at application submittal. N/A	☐ A
86. Describe 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 and output and configuration of sprinkler heads. WILL SUPPLY IN THE APPLICATION SUBMITTAL.	☐ A
87. Is the water delivery system capable of providing the requested beneficial use?	☒ Y ☐ N
88. Will your system be designed to discharge water from the project?	☒ Y ☐ N
a. If yes, explain the way water will be discharged and the wastewater disposal method. CONNECT TO LAKESIDE WATER & SEWER - LAND APPLICATION FOR DOMESTIC AND COMMERCIAL PURPOSES.	☐ A

89. Provide a plan of operations. WILL SUPPLY IN THE APPLICATION SUBMITTAL.	☐ A
90. Can the plan of operations deliver the flow rate and volume for the beneficial use being requested?	☒ Y ☐ N
91. 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. FLOWMETER WITH A TOTALIZER HAS BEEN INSTALLED ON THE PWS. AT MINIMUM METERING OF THE SYSTEM SHALL ACCOUNT FOR THE TOTAL WATER DIVERTED FROM THE WELLS.	☐ A

Beneficial Use

92. Why is the requested flow rate and volume the amount needed for the purpose? DOMESTIC/COMMERCIAL USING DEQ STANDARDS; L&G USING DNRC TURF GRASS. MORE INFO TO BE SUPPLIED IN APPLICATION.	☐ A
93. Does the Department have a standard for the purposes for which water is used? Department standards can be found in ARM 36.12.112.	☒ Y ☐ N
a. If yes, does the proposed beneficial use fall within Department standards?	☒ Y ☐ N
94. If no standard, or if proposed beneficial use falls outside of Department standards, explain how the use is reasonable for the purpose.	☐ A
95. 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,	☒ Y ☐ N
i. Have you researched or consulted with DEQ regarding those requirements?	☐ Y ☒ N
96. 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?	☐ S
i. If yes, please submit the COSA.	☐ Y ☐ N
ii. If no, have you researched or consulted with DEQ regarding their requirements?	☐ Y ☐ N

Possessory Interest

97. Do you have possessory interest, or the permission of the party with possessory interest, of the proposed place of use? Proof of possessory interest or permission of the party with possessory interest is required at application submittal.	☐ Y ☐ N
a. If no, explain. FOLLOW UP - WILL PROVIDE DOCUMENTATION AT APPLICATION SUBMITTAL.	☐ A

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 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 the first five days of the 45-day period in ARM 36.12.1302(4) or (5) 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 within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the \$500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires.


Applicant Signature

12/23/24
Date

Applicant Signature

Date

Department Signature

Date

Applicant will provide all responses to questions marked for follow-up on a separate document entitled "Follow-up Responses" with the question number labeled. Answer questions in the same format as the form. 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 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 signed at the Preapplication Meeting. Instead, the Applicant must use the Amended Responses procedure defined below. Do not include additional information for questions not marked for follow-up here; instead include any additional information pursuant to the process for amending responses defined below.

[illegible]

The Applicant may not alter the Preapplication Meeting Form signed at the Preapplication Meeting or the Follow-up Page. 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. Answer questions in the same format as the form. 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 attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted. The Applicant will mark all question numbers with an amended response in the table below and note for each question whether the response will replace the response given at the preapplication meeting or will provide additional information to consider in conjunction with the response given at the preapplication meeting. The Applicant will return the "Amended Responses" document with the "Follow-up Responses" document and the signed Preapplication Meeting Form.

[illegible]

FOLLOW-UP PAGE AFFIDAVIT & CERTIFICATION

"I/we attest that this preapplication meeting form, follow-up page, and amended responses page accurately portray my 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 and follow-up materials (ARM 36.12.1302(6)(a))."


Applicant Signature

6/23/24
Date

Applicant Signature

Date

"We confirm that the preapplication form 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 piece of technical analysis required 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

Form 600 ATA

Aquifer Test Addendum



**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).

Form 600 - Aquifer Testing Addendum

ATA.1.a – The Applicant has submitted a variance to the requirements of ARM 36.12.121(3)(e) and (3)(j).

ATA.2.a – Refer to **Figures 2** for a topographic map with locations of the two wells.

ATA.2.b – Well logs are provided in the attached documents (PWS-1 = GWIC ID 237308 and PWS-2 = GWIC ID 237309).

ATA.2.c – Refer to the Form 633s provided electronically on the attached compact disc.

ATA.2.d – A detailed description of the aquifer tests completed on the two proposed points of diversion (wells), completed by Morrison-Maierle, Inc. in March 2008 in support of Provisional Permit 76LJ 30041572 is attached to this application.

ATA.3.a – See attached Form 633s.

The 72-hour test completed on PWS-1 was performed at an average rate of 270 gpm. Per the records provided by MMI, the flow rate varied from 265 gpm to 272 gpm – within 1.9-percent.

The 26-hour test completed on PWS-2 at a rate of 110 gpm. The test was completed at an average flow rate of 100 gpm for the initial 135 minutes and then the flow rate was increased to 110 gpm for the remainder of the test. Overall, the flow rate varied from 95 to 110 gpm – up to 13.6-percent of 110 gpm.

The 24.5-hour-plus test completed on PWS-2 at a rate of 160 gpm. The test was completed at an average flow rate of 170 gpm for the initial 40 minutes and then the flow rate was decreased to 160 gpm for the remainder of the test. Overall, the flow rate varied from 150 to 175 gpm – up to 9.4-percent of 160 gpm.

ATA.3.b – NA: The total proposed flow rate cannot be obtained from a single well.

ATA.3.c – Yes: The proposed flow rate of 430 gpm was demonstrated by testing PWS-1 at 270 gpm for 72-hours and PWS-2 at 160 gpm for 24-hours.

ATA.3.d – Yes: Per information provided by MMI, discharge during each of the three tests was measured using a 3-inch flow meter.

ATA.3.e – Yes: A 72-hour pumping test was completed on PWS-1, as required due to the requested flow rate of 430 gpm and volume of 336 acre-feet.

ATA.3.f – Yes: During the aquifer pumping tests performed on PWS-1, water level responses were monitored in PWS-2. Similarly, during aquifer pumping tests performed on PWS-2, the water level in PWS-1 was monitored. Measurable drawdown was observed in the observation well for each test.



ATA.3.g – No: Background data were not collected in the observation well for at least two days prior to the start of the 72-hour test on PWS-1. Background data are limited to approximately 30 minutes prior to the start of the 26-hour test on PWS-2.

ATA.3.h – Yes: Water-level measurements were made with In-Situ LevelTROLL 700 pressure transducers accurate to 0.01 feet. Drawdown and recovery data are provided on Form 633. Note that the full recovery data was collected for the aquifer pumping test completed on PWS-1. Limited recovery data was collected for the two aquifer pumping tests completed on PWS-2.

**A GROUNDWATER PERMIT APPLICATION
FOR**

**EAGLE'S CREST SUBDIVISION
EAST WATER SYSTEM**

March 2008

Prepared For:

Strategic Land Partners
7135 U.S. Highway 93 South, Unit C
Lakeside, Montana 59922

Prepared by:

Morrison-Maierle, Inc.
3011 Palmer Street
Missoula, MT 59808



MMI Project: 4217.001

EAGLE'S CREST SUBDIVISION

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INTRODUCTION

Eagle's Crest Subdivision occupies approximately 1800 acres of land located in Sections 19, 29 and 30, Township 26 North, Range 20 West and Section 25, Township 26 North, Range 19 West, Flathead County, Montana. The development is located on the western side of Flathead Lake south of the community of Lakeside and west of Highway 93 (Figure 1- USGS Vicinity Map).

The water system is currently being developed in nine phases and is proposed to serve Eagle's Crest Heights (Phase IV), Lot 27 of Eagle's Crest Phase II, and Lot 169 of Phase V for a total of 117 lots. It is anticipated that a total of 443 lots from Eagle's Crest Phase VIII, Phase IX, and a portion of Phase VII will be eventually added to this system. This water system is proposed to serve the eastern phases of the Eagle's Crest Subdivision, therefore it is designated the East Water System. Two production wells have been drilled and tested for this system (PWS-1 and PWS-2) to serve the initial 117 lots being brought into service. It is anticipated that eventually, additional wells will be drilled to add capacity to this system to meet the demands of all 443 lots.

Eagle's Crest Heights (Phase IV) consists of 115 lots. One residential dwelling unit is proposed for 114 of these lots. Lot 37 is proposed as an airport facilities lot with hangers and a small bar (no irrigation use proposed). In addition, this submittal includes Lot 27, Eagle's Crest Phase II, which contains a golf shop and club house and Lot 169 of Phase V, a residential lot. The irrigation for the non-residential lots will be provided with a separate well and distribution system. A centralized public water system will provide water to the subdivision; while the sewer system will be connected to the Lakeside County Water and Sewer District (LCWSD) system. The public water supply system and sewer collection system will be owned and operated by LCWSD. All irrigation for the commercial lots will be provided by a separate system.

BACKGROUND

This application is for two wells to be utilized as groundwater points of diversion to provide up to 270 gallons per minute (gpm) and 74.9 acre-feet (af) for a community public water supply system for the Eagle's Crest Subdivision. The purpose of this use is for domestic, commercial and lawn and garden use for Eagle's Crest Subdivision. The period of use is January 1 to December 31. PWS-1 is located in the southeast $\frac{1}{4}$ of the southwest $\frac{1}{4}$ of the southeast $\frac{1}{4}$ of Section 30, and PWS-2 is located in the northeast $\frac{1}{4}$ of the southwest $\frac{1}{4}$ of the southeast $\frac{1}{4}$ of Section 30, both Township 26 North, Range 20 West, P.M.M. Flathead County, Montana (see Figure 2 for precise well locations).

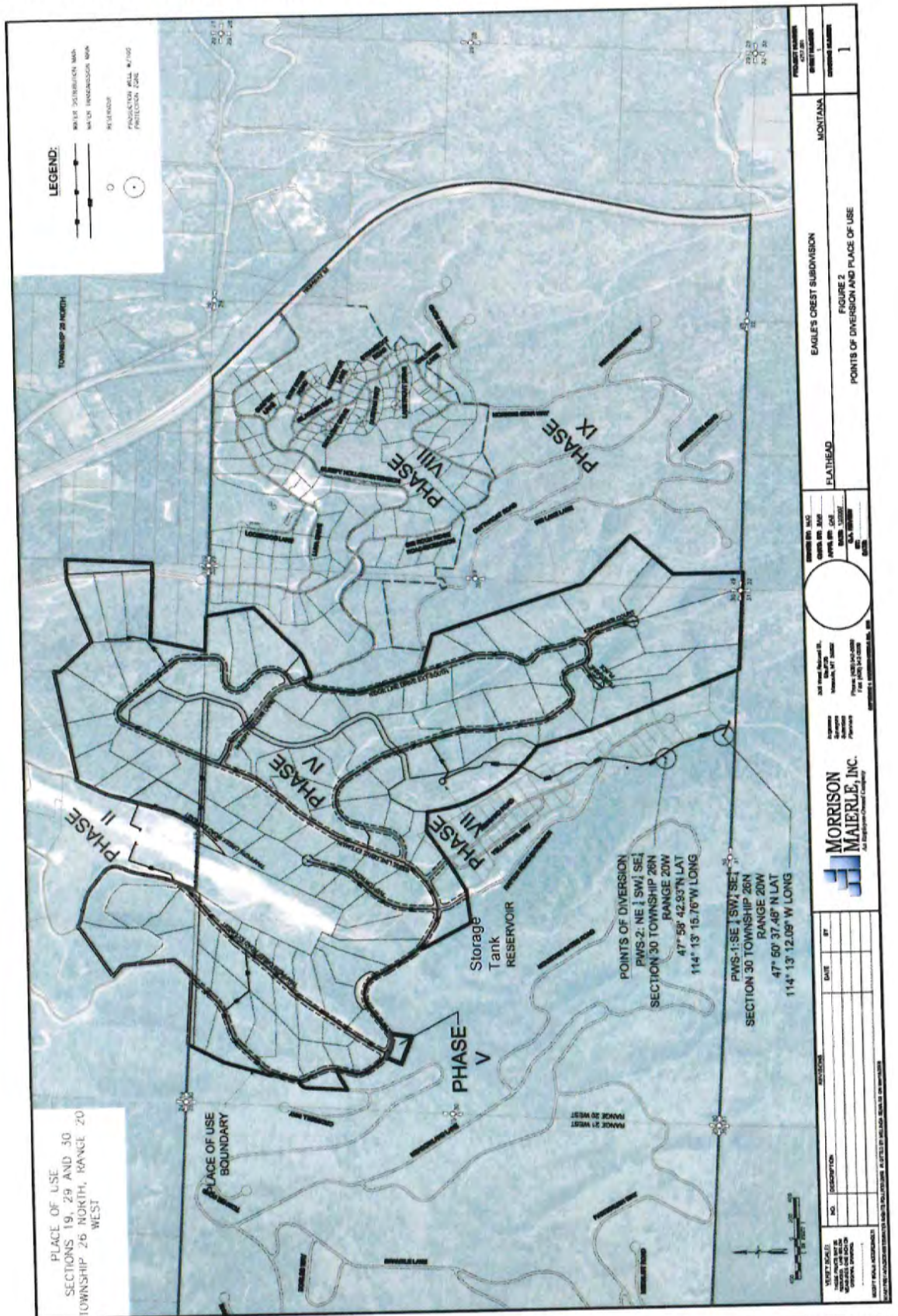
The proposed place of use for this water right application is the portion of Eagle's Crest Subdivision that consists of Eagle's Crest Heights, Lot 169 of Phase V, and Lot 28 of Eagle's Crest Phase II, as shown on Figure 2 (117 lots total). This place of use includes portions of Sections 29 and 30 and the S $\frac{1}{2}$ of Section 19, Township 26 North, Range 20 West P.M.M. Flathead County, Montana.

PWS-1 was completed on June 27, 2007 to a depth of 640 feet in a fractured Pre-Cambrian carbonate unit. Static water level was approximately 341 feet below top of casing (BTOC). PWS-2 was completed 610 feet from PWS-1 to the NNW on July 14, 2007 to a depth of 727 feet in the same bedrock unit as PWS-1. Static water level was approximately 365 feet BTOC.

Figure 1: USGS Vicinity Map



Figure 2: Point of Diversion and Place of Use location Map



GW.8. ADEQUATE DIVERSION MEANS AND OPERATION

GW.8.D ADEQUATE DIVERSION MEANS AND OPERATION

GW.8.D.1 Water Demands

A maximum pumping rate of 270 gpm is requested for the Applicant's use. The annual volume of water requested for this system is 74.9 ac-ft/yr for a combined domestic, commercial and irrigation use. Table 1 provides a summary of the monthly water demands.

Domestic demands are based on Lakeside Wastewater System Preliminary Engineering report (PER) (Peccia, 2007), which looked at the total monthly wastewater flows in the LCWSD system. The annual average wastewater flow ranged from 126-135 gallons per day (gpd) per residence and a value of 200 gpd per residential lot was selected for future projections in the PER. Therefore, a domestic water demand of 200 gpd per residential lot is assumed for the purpose of this beneficial groundwater use permit application. The domestic and irrigation demand assumed for Eagle's Crest East Water System is different from the estimate used for the design of the system under Montana Department of Environmental Quality (MDEQ) rules and regulations due to safety factors built into MDEQ design requirements as well as the engineering assumptions for the system. In addition, non-residential flows based on MDEQ Circular 4 (2,217 gpd total) have been added to the total demand. This results in an addition of 2,217 gpd to the system.

The net irrigation requirement (Table 1) for residential landscaping is based on the Montana Irrigation Guide's irrigation requirements for grass turf in irrigation Climatic Area 4 during a normal year (see Appendix C for complete irrigation calculations). The annual irrigation diversion is based on 0.25 acre per lot of irrigated landscaping because this is the maximum irrigated acreage allowed each residential lot in the Declaration of Conditions, Covenants and Restrictions for Eagle's Crest Subdivision. An irrigation efficiency of 85 percent was assumed resulting in a total irrigation consumption requirement of 16.6 inches per year (Table 1).

Month	Domestic Demand (gal)	Irrigated Area (ac)	Net Irrigation Requirement (in)	Sprinkler Irrigation (in)	Irrigation Consumptive Use (Ac-ft)	Monthly Demand (gal)	Total Demand (gpm)	Total Demand (ac-ft)
January	775,527	0	0			775,527	17.4	2.4
February	700,476	0	0			700,476	17.4	2.1
March	775,527	0	0			775,527	17.4	2.4
April	750,510	28.75	0.39	0.46	1.10	1,108,946	25.7	3.4
May	775,527	28.75	2.05	2.41	5.77	2,655,687	59.5	8.2
June	750,510	28.75	3.14	3.69	8.84	3,631,033	84.1	11.1
July	775,527	28.75	4.95	5.82	13.94	5,317,890	119.1	16.3
August	775,527	28.75	3.80	4.47	10.71	4,265,391	95.6	13.1
September	750,510	28.75	2.01	2.36	5.65	2,591,568	60.0	8.0
October	775,527	28.75	0.25	0.29	0.69	1,000,364	22.4	3.1
November	750,510	0	0			750,510	17.4	2.3
December	775,527	0	0			775,527	17.4	2.4
Annual	9,131,205		16.6		46.7	24,348,447	46.3	74.7

The commercial flows (2,217 gpd) were added to the average day domestic use (200 gpd), which was multiplied by the number of domestic lots (115) to get the average daily flow (gallons). This volume was multiplied by the number of days in each month to get the domestic demand (gallons) for each month (Table 1). The net sprinkler irrigation requirement in inches was used to calculate the irrigation consumptive use in ac-ft by multiplying it by the irrigated acreage. This volume was converted to gallons and added to the domestic demand to get the total monthly demand in gallons. This value was then converted to gpm and ac-ft to evaluate the annual demand as a flow rate (46.5 gpm) and volume (74.9 ac-ft).

GW.8.D ADEQUATE DIVERSION MEANS AND OPERATION

Water System Layout

The diversion works for this water right is a public water supply designed under MDEQ rules and regulations. This system consists of two public water supply wells that pump water to a 438,000-gallon storage tank that provides water to the distribution system. The water supply system is separated into multiple pressure zones using pressure reducing valves and a small booster station. There are approximately 5,400 lineal feet of transmission piping and 27,300 lineal feet of distribution piping consisting of 3-, 6- and 8-inch PVC and HDPE. A water meter is in the well house that measures both total flow volume and real time flow rates. In addition, LCWSD requires that each service line be metered as it is connected to the system.

Pumping Volumes

The Applicant plans to satisfy the water demands in Table 1 with PWS-1 and PWS-2 wells and a 438,000 gallon at-grade storage reservoir located in Phase IV. The reservoir is sized to provide storage for fire flow events (60,000 gallons) in addition to the amount needed for operational storage (approximately 92,000 gallons). The reservoir has also been sized to provide additional capacity for future water system phases. The pumping schedule for the 74.9 ac-ft volume of water to be diverted in one year was determined using the PWS-1, which could be pumped up to 270 gpm and PWS-2, which can be pumped up to 107 gpm. These two wells will be pumped on an alternating schedule to allow for a minimum of 24 hours of recovery between each 10 hours maximum pumping period. The number of pumping cycles is controlled by floats in the reservoir based on demand. However, it is estimated that there will be 112 pump cycles per year. The average, continuous discharge for this system is 46.4 gpm. This is calculated using the following equation:

$$\begin{aligned} \text{average discharge (gpm)} &= [(\text{proposed volume (ac-ft)} * 43560 \text{ ft}^3/\text{ac} * 7.48 \text{ gal/ft}^3) / \\ &\quad \text{days in diversion period} * 1440 \text{ (min/day)})] \\ &= (74.9 \text{ ac-ft} * 43560 \text{ ft}^3/\text{ac} * 7.48 \text{ gal/ft}^3) / (365 \text{ days} * 1440 \text{ min/day}) \end{aligned}$$

The total annual water demand of 24,421,447 gallons can be averaged over the entire year for an average day demand of 66,908 gpd. The maximum time required to pump an average day volume using PWS-1 at 270 gpm is about 4.1 hours. Due to the large size of the storage tank used for this project, the phasing of the project and the MDEQ required redundant well(s), the pumping cycle will vary from this estimate. However, it is the intent to demonstrate that it is possible to withdraw the requested volume over the period of diversion.

GW.6.A PHYSICAL GROUNDWATER AVAILABILITY

GW.6.A.1 Physiography

The Eagle's Crest Subdivision is located in the Salish Mountains approximately 17 miles south of the City of Kalispell. The property is on the west side of Flathead Lake in mountainous terrain that forms the west flank of the Flathead Valley. Flathead Lake and the Kalispell Valley north of the Lake occupy a large intermontane valley to which the surrounding terrain, including the Eagle's Crest Subdivision property, drains. The valley bottom elevation ranges from 3,000 to 3,200 feet mean sea level datum (msld) and the surrounding mountains range in elevation from 5,000 to 8,000 feet (msld). The surface water elevation of Flathead Lake during full pool is approximately 2,887.4 feet (msld). The surface water elevation of Flathead Lake is controlled by Kerr Dam located on the Flathead River south of Flathead Lake. Eagle's Crest Subdivision is located just off the west shore of Flathead Lake at elevations ranging from 3,100 to 4,500 ft. (msld). The Flathead River drains the Flathead Lake and the valley to the south.

GW.6.A.2 Geology

The Eagle's Crest Subdivision is underlain by Precambrian-aged rock strata of the Belt Supergroup Series. The Belt Series is a Precambrian-age (1.4 to 1.5 billion years old) sequence of metasedimentary rocks with thicknesses exceeding 20,000 feet. In particular, the rocks of the project site belong to the Piegan Group of the Belt Supergroup Series (Winston, 2007). Locally, the terrain of the subdivision property is supported by a sequence of Precambrian carbonate rocks previously identified as the Helena Formation (Harrison et. al., 1986). Field inspection of the Piegan Group within the subdivision boundaries revealed dark grey, thickly bedded, massive, cliff and ledge-forming outcrops of weakly metamorphosed limestone. The lithology of these rocks corresponds to rocks previously described by Johns (1970) as the Siyeh Formation of the Piegan Group, consisting of medium-gray and blue-grey, crystalline, stromatolitic, molar-toothed limestone and dolomite that is thickly bedded and massive. Harrison et al. (1986) subsequently assigned these strata to the Helena Formation, a formation that in the Lewis and Clark Range, is a lateral equivalent to the Wallace Formation in northwest Montana. Figure 3 shows a compilation map of the geology of the area of this project.

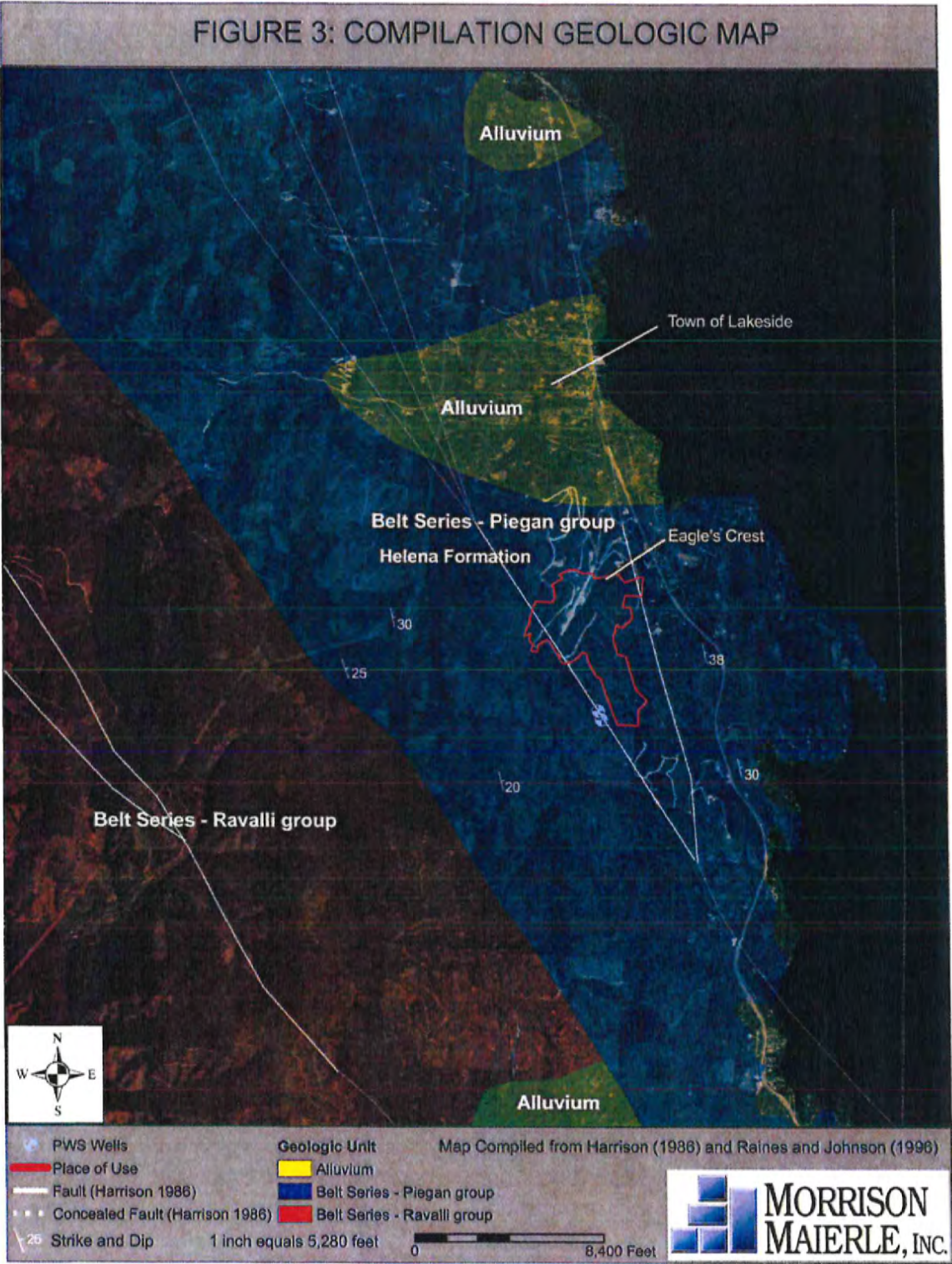
The structural geology of the Precambrian bedrock exerts profound influence on the distribution and availability of groundwater in the region, as will be discussed in more detail. In general, the topography in the Eagle's Crest Subdivision is dominated by a strong northwest-southeast trending fabric (Harrison et al. 1986, 2000). This fabric is partially due to a system of sub-parallel faults that strike approximately N20W. The northwest trending series of ridges and gullies in the subdivision reflect the underlying structural geology. The sub-parallel faults are dominantly high-angle structures with normal movement. Normal movement on a fault is when the hanging wall appears to have moved downward relative to the footwall. Field investigations also revealed minor strike-slip displacement along the aforementioned northwest trending structures. The significance of these features to the hydrogeology is implicit in the geologic history of structural deformation that created these features.

The history of deformation is summarized by LaFave et al. (2004) as follows:

"Compressive tectonic forces thrust the Belt rocks eastward beginning about 110 m.y. ago and the compression uplifted, folded, and fractured the rocks. As the compressive fractures relaxed 40-50 m.y. ago, extension opened northwest-southeast valleys such as the North Fork of the Flathead River and the Stillwater River valley. Around 15-20 m.y. ago the direction of extension changed, creating north-south- oriented valleys, most notably the Kalispell and Mission valleys . . ." (LaFave et al., 2004; p.9)

The normal faults identified in the Eagle's Crest Subdivision formed under the latter extension of the earth's crust, and thus reflect movement along the fault zones under tension, rather than compression, a fact that most likely contributes to the ability of the fault zones to store and transmit water. High-angle reverse normal faults formed under compressive forces often contain finely-ground rock (fault "gouge") that is relatively impervious to water. In contrast, normal faults formed under tension often are the focus of localized folding and fracturing of rock on both sides of the fault shear zone due to drag between the hanging wall and footwall. The shear zone between the hanging and foot walls of a normal fault may exhibit highly permeable brecciated rock or, conversely, a thin zone of low permeability fault gouge; however, the rock on both sides of the main shear zone is typically very fractured and broken if the fault displaced hard crystalline rocks such as limestone or dolomite. Consequently, normal faults are often the location of groundwater storage and movement whereas reverse normal faults often act as barriers to groundwater movement. The presence of normal faults within the subdivision boundaries is favorable to the availability of a groundwater source.

Figure 3: Compilation Geologic Map change in POU boundary



The subdivision terrain was glaciated in the last glacial advance. A thin mantle of Wisconsin-aged Pleistocene glacial till is deposited discontinuously on the bedrock surface. Local valley floors may include deposits of post-glacial alluvium overlying the glacial till. The bedrock is exposed on most ridge tops in the subdivision and the thickness of unconsolidated surficial deposits resting on the bedrock is highly variable, ranging from zero to potentially tens of feet.

GW.6.A.3 Hydrogeology

The crystalline limestone and dolomite of the Helena Formation generally do not offer sufficient primary porosity and permeability to store and/or transmit significant amounts of groundwater. However, discontinuities in the rock due to normal faults, as previously discussed, provide secondary openings that can store and transmit groundwater. The two public water supply wells for the proposed subdivision were therefore located to penetrate a large fault zone traversing the subdivision property.

It is expected that the amount of porosity and the interconnectedness of the porosity will be greatest near the fault shear zone (possibly with discontinuous fault gouge in the actual shear zone) and will progressively decrease with increasing distance perpendicular to the fault zone. As will be discussed below, inflow from porous or micro-fractured rock surrounding the fault zone, or from cross-cutting faults or fractures, was not evident in the fault zone hydraulic response to aquifer testing. Accordingly, it is concluded that the principal distribution of groundwater storage and flow in the subdivision area is in the normal faults with little or no flow in the rock adjacent to the faults. A smaller amount of groundwater storage and flow may be offered in the subdivision area by fracture or joint systems where there is no displacement of the rock (as occurs along the faults), but where openings have been created by folding and deformation of the rock. The latter features have not yet been investigated with exploratory wells.

Three sets of static water level measurements are available from the two public water supply wells as summarized on Table 2. The 6/27/07 data were collected three days after drilling of the well with air rotary methods and development of the well with air lift pumping was completed in well PWS-2. Accordingly, the gradient from PWS-1 to PWS-2 is the result of drawdown around well PWS-2 and does not represent the natural groundwater gradient.

Table 2: Static Water Levels

Date	PWS-1 SWL Elevation (ft msld)	PWS-2 SWL Elevation (ft msld)	Elevation Difference PSW-2 to PSW-1 (ft)
06/27/07	3188.741	No Well	----
07/17/07	3189.041	3184.825	-4.216
08/20/07	3186.781	3187.235	0.454
08/27/07	3185.591	3185.625	0.034

The measurement on 8/20/07 was taken 30 days after the end of the test of well PWS-1 and, with 30 days of recovery, is probably the most representative set of data for static water level conditions of the three sets on Table 2. The 8/27/07 record was taken after a second test of well PWS-1 for 24 hours, starting on 8/20/07, after the static water level on that date was taken. Based on the foregoing data, it is concluded that natural groundwater flow along the fault zone is generally from north to south, i.e., from well PWS-2 towards well PWS-1.

Pre-test monitoring of groundwater was conducted in PWS-1 from 8:00 p.m., July 13, 2007 to 10:00 a.m. July 17, 2007 for a total of 86 hours. Water levels were recorded using an In-situ LevelTROLL 700 300psi pressure transducer recording data at 30 second intervals. Atmospheric pressure was recorded for the same period of time with an In-Situ, Inc. BaroTROLL. Pre-test monitoring was not performed in well PWS-2 because it was not completed until July 14, 2007.

Figure 4 is the hydrograph of the pre-test water levels in PWS-1. This hydrograph reflects the effects of the drilling and development at PWS-2 on July 14, 2007 from approximately 8:00 a.m. to 12:00 p.m. Comparison of the other small water level fluctuations in the well to the barometric pressure fluctuations during the pre-test measurements indicates the water level in the well fluctuated in response to atmospheric pressure changes, exhibiting the same response expected from a confined aquifer. Figure 5 shows a similar response in PWS-2 during testing. However, it must be recognized that in fractured bedrock terrain, water level response to barometric pressure fluctuation is not unusual, even though the fractured rock aquifer is unconfined. No correction was applied to the drawdown data.

The unconfined aquifer response to barometric fluctuation occurs because the groundwater is in a sub-vertical fault where part of the atmospheric pressure load on the rock in the hanging wall is supported by the water column, just as occurs in a confined aquifer. The only part of the water in the sub-vertical fault subject to atmospheric pressure is that at the water table in the fault. Since atmospheric pressure is vertical and the fault dips, most of the groundwater in the fault is "confined" so far as atmospheric pressure is concerned and when the atmospheric pressure increases, the pore pressure in the fault zone increases or vice-versa when atmospheric pressure decreases.

Accordingly, groundwater response in the fault may fluctuate with fluctuations in atmospheric pressure, thus providing a "confined" aquifer response; however, the fault zone still remains open to the land surface to receive recharge from surface water runoff. The fault penetrated by the two public water supply wells is aligned with the bottom of the local valleys over most of its length and therefore the fractured rock aquifer within the fault zone likely receives most of its recharge from seasonal infiltration of surface water flowing in the ephemeral water course along the bottom of the valley (along the intersection of the fault and the land surface) during spring snow melt and during the occasional storm runoff event.

Figure 4: Pre-test Hydrograph of PWS-1

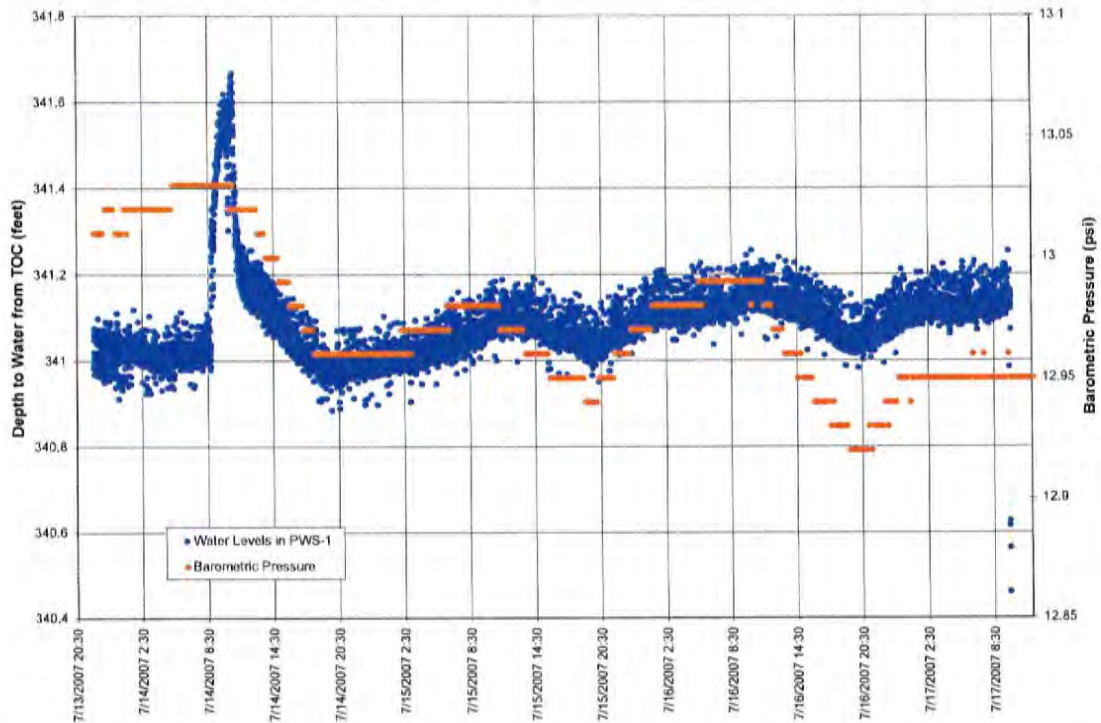
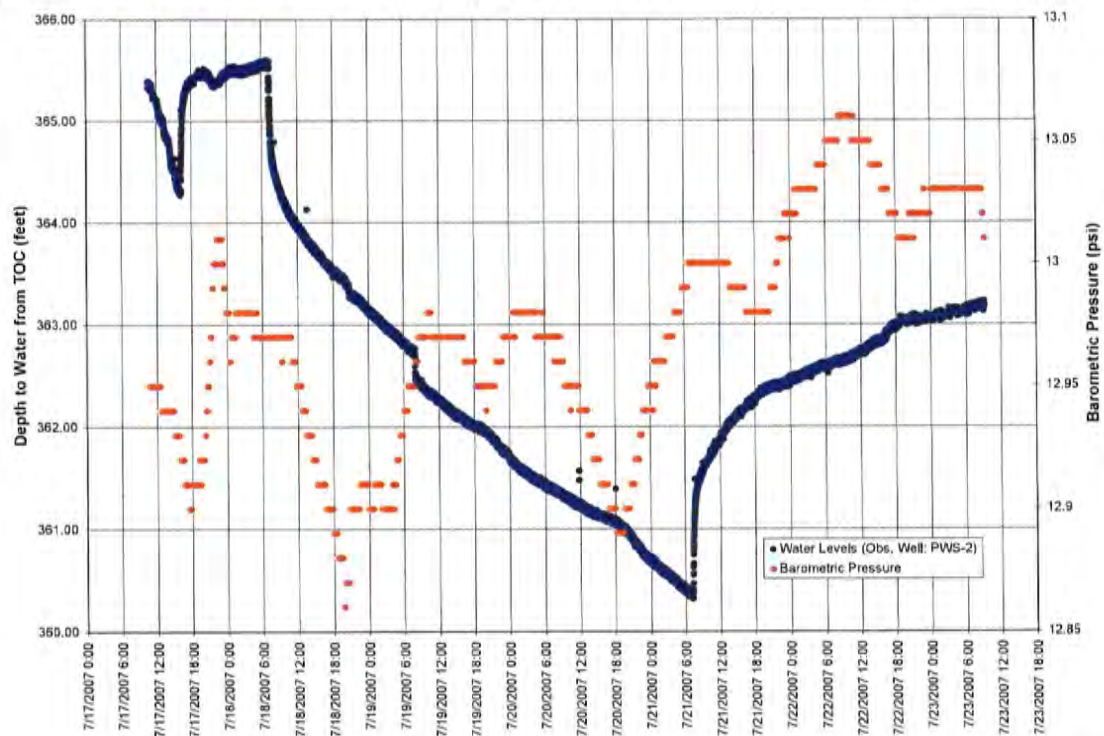


Figure 5: Barometric Pressure compared to PWS-2 observation well



GW.6.A AQUIFER TESTING

GW.6.A.1 Well Design/ Construction

PWS-1 (GWIC 237308) and PWS-2 (GWIC 237309) were completed in the summer of 2007 by Marvin Sudan (license WWC-450) to a depth of 640 feet and 727 feet respectively. Both wells are cased with 8 inch steel casing to a depth of 621 feet (PWS-1) and 687 feet (PWS-2). PWS-1 is slotted from 602 to 620 feet and PWS-2 is slotted from 668 to 686 feet. The wells are located approximately 610 feet apart. The geologist well logs and the driller well logs are attached in Appendix A. The production well design details are attached in Appendix B.

GW.6.A.2 Aquifer Test Procedure

Discharge rates during aquifer testing were regulated by means of a 3-inch diameter threaded steam gate valve which was adjusted as necessary to maintain the discharge rate within plus or minus 5 percent of the test pumping rate. During all aquifer testing the discharge rate was measured at frequent intervals with a 3-inch diameter totalizing and rate indicator in-line flow meter. See Form 633 for complete data (Appendix D and attached CD of electronic data in Excel form).

Both wells tested are intended to be utilized as production wells. When one well was pumped, the other was used as an observation well. In each test, the pumped well and observation well were instrumented with In-Situ, Inc. LevelTROLL 700 recorder/pressure transducer equipment programmed to store a depth to water measurement every 30 seconds, simultaneously in both wells, with a precision of a thousandth of a foot (reported to the hundredth of a foot).

48 hours of pre-test monitoring was conducted on PWS-1 prior to commencing any pumping of the well. A stepped rate test was conducted in PWS-1 on July 17, 2007, with a one-hour duration per step at 80 gpm, 120 gpm, 160 gpm, 200 gpm, 240 gpm, and 275 gpm. A constant rate aquifer test at 270 gpm was conducted in PWS-1 starting 7:00am, July 18, 2007 and ending 7:06 am, July 21, 2007 for a total of 72:06 hours based on our appropriation request of greater than 150 gpm and 50 ac-ft volume. Figure 6 is a plot of the observed discharge rate versus pumping time. PWS-2 was used as an observation well during all testing of PWS-1. Water levels in both wells were recorded at a 30-second interval with an In-situ Level Troll 700 pressure transducer (100psi in PWS-2 and 300psi in PWS-1). A 50HP pump was used during this test. Water was discharged through 3-inch irrigation pipe to a low spot approximately 400 feet southeast of the well where it continued to flow along an existing drainage for a distance before pooling. The aquifer responses in both the pumping wells and observations wells indicate that the discharge water was not circulating back to the wells during the pumping tests (a more detailed discussion of recharge is provided in Section 1.3.3 Aquifer Response). Water levels were allowed to recover and recorded for 48 hours after the end of the 270gpm constant rate test.

Figure 6: Discharge Rates for 72 hour constant rate test on PWS-1

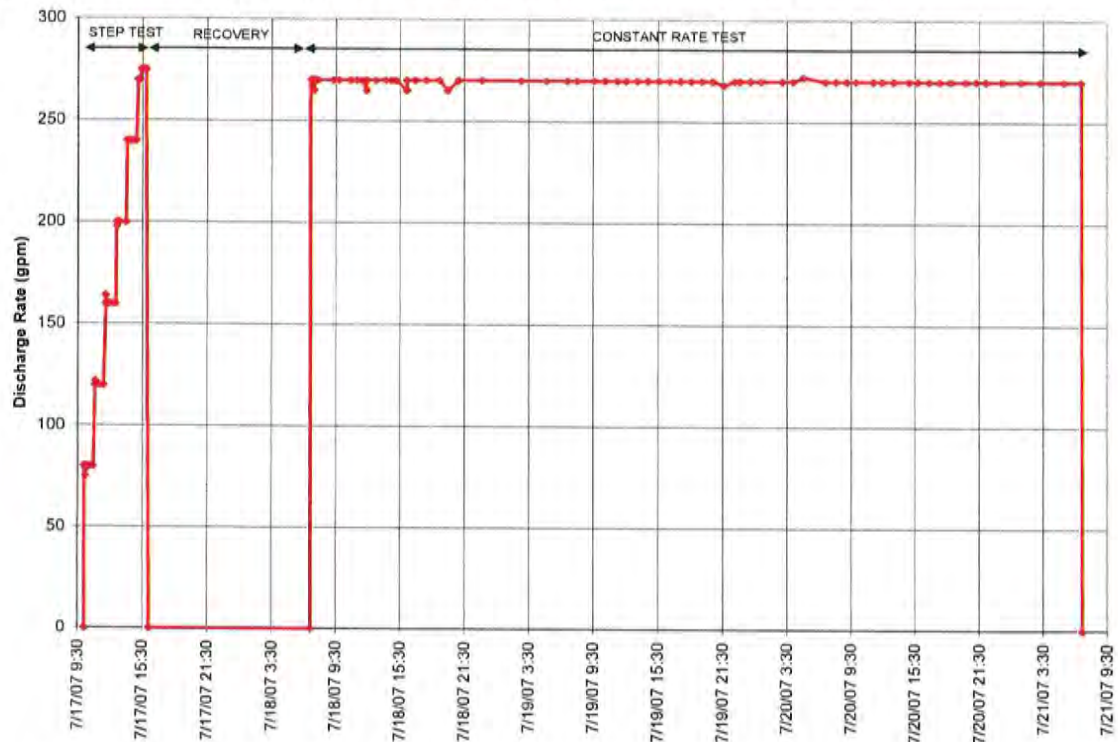
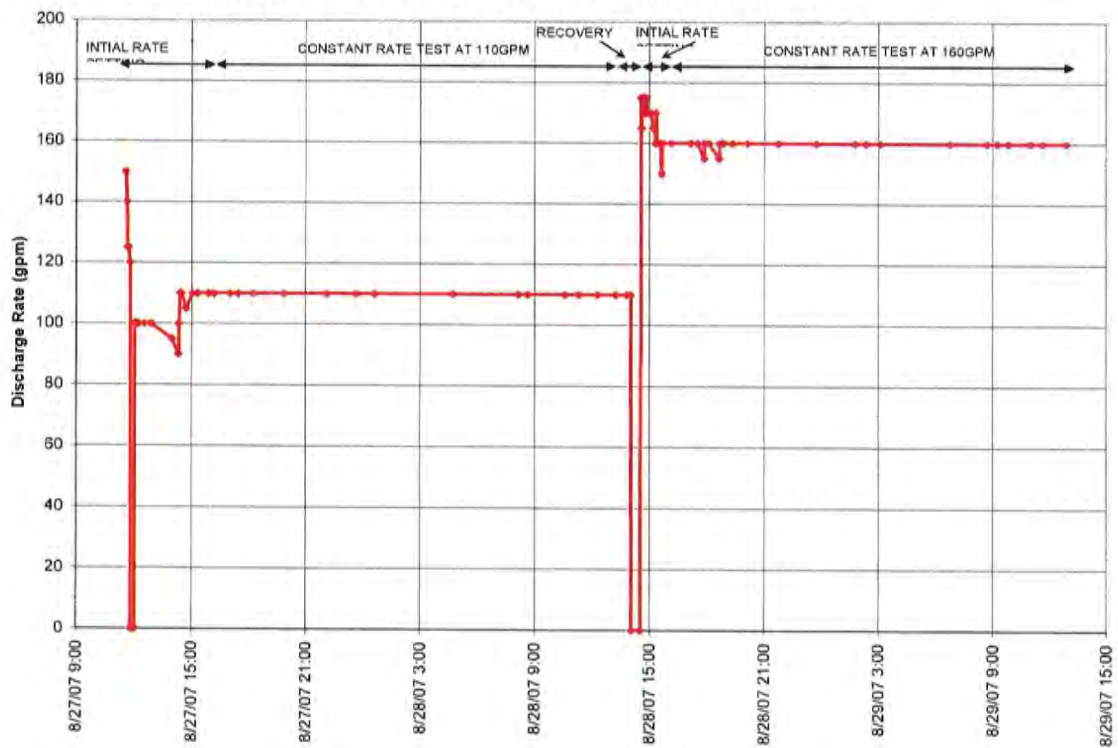


Figure 7: Discharge Rates for 24 hour constant rate test on PWS-2



A 26-hour constant rate test at 110 gpm was conducted on PWS-2 starting 12:00pm, August 27, 2007 and ending 2:00 pm August 28, 2007. PWS-1 was used as an observation well during all testing of PWS-2. The discharge rate versus pumping time is shown on Figure 7. Water levels in both wells were recorded at a 30-second interval with an In-situ Level Troll 700 pressure transducer (100psi in PWS-1 and 300psi in PWS-2). Discharge during this test was to the same location as during the PWS-1 aquifer tests.

A second constant rate aquifer test at 160 gpm was conducted on PWS-2 starting at 2:30 pm, August 28, 2007 after allowing approximately 30 minutes of recovery from the 110 gpm constant rate test. The 160 gpm constant rate test was allowed to run until 2:30 pm August 29, 2007. The discharge rate versus pumping time is shown on Figure 7.

GW.6.A.3 Aquifer Response

The aquifer response to pumping, in the form of time-drawdown data, indicates the conditions controlling the release of groundwater from storage and the flow of that released storage (groundwater flow) to the pumped well. Figure 8 shows the time-drawdown plots from each production well, used as an observation well when the other production well was pumped, i.e., the response at the observation wells. In the case of pumping well PWS-1, two observation well plots are shown, one for a 110-gpm pumping rate and one for a 160-gpm pumping rate at well PWS-2.

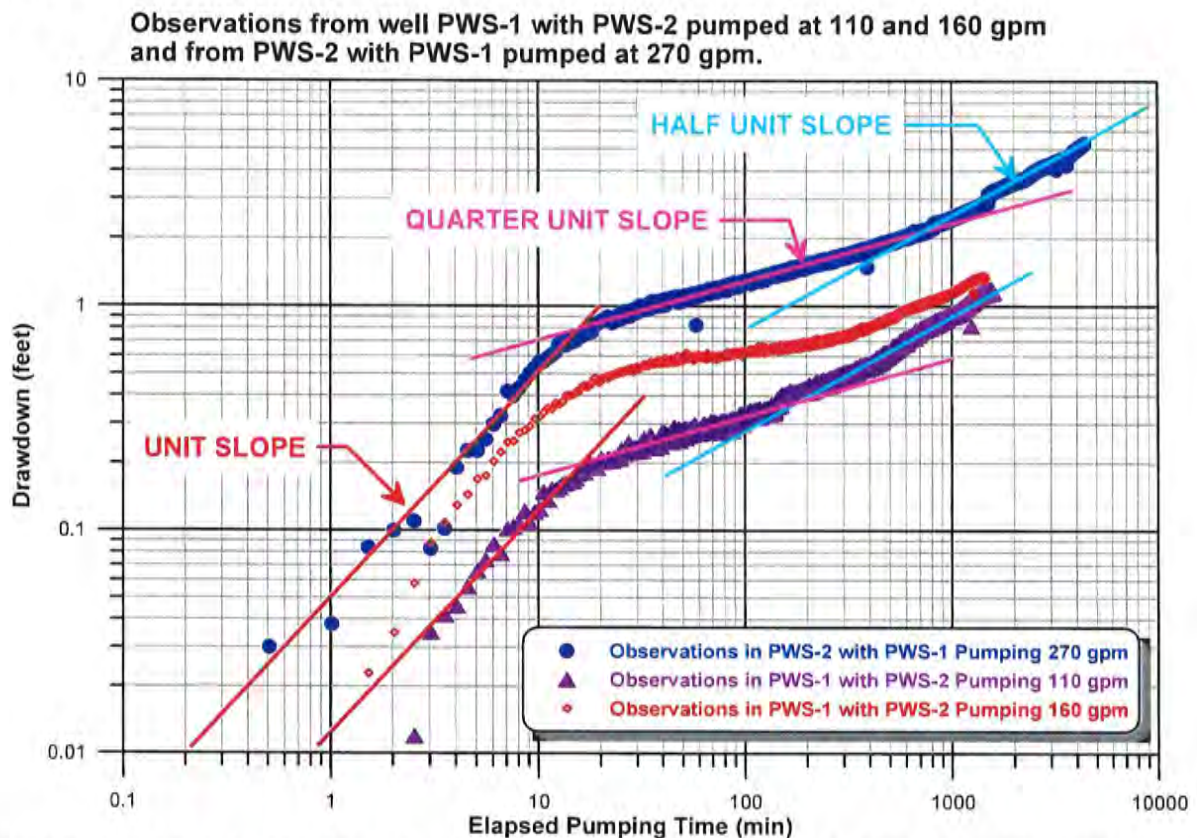
The time-drawdown responses from the production wells, used as observation wells, exhibit a progression of log-log, straight-line plots. Straight-line time-drawdown response on a log-log plot is diagnostic of linear flow to the pumped well through a discrete linear feature such as a strip aquifer, an individual fracture, or a large shear zone such as a fault. The linear flow response requires that the hydraulic conductivity of the linear feature be significantly greater than that in the rock surrounding the feature.

Accordingly, the plots on Figure 8 demonstrate that flow to the pumped wells completed in the normal fault zone was in a zone with substantially greater aquifer transmissivity than the surrounding rock. The late-time response indicates that essentially no water was obtained from the rock bounding the fault zone, as is discussed in detail below.

The observation well linear flow responses on Figure 8 exhibit three distinct types of aquifer response. The initial response is a log-log straight line of unit slope. This is the type of response that would be obtained if the time-drawdown response of a tank of water were examined; i.e., change in water level is proportional to change in time. This response is most often associated with well bore storage in aquifer tests. However, the data on Figure 8 are from observation wells that are not subject to well bore storage effects; therefore, the response is due to storage in the aquifer.

Highly brecciated rock with large pore volume is the most likely mechanism for essentially 100 percent porosity or nearly so in the fault zone, as required to cause the

Figure 8: Time-drawdown plot of observation wells



log-log unit slope response. An alternative interpretation is that open, interconnected voids have developed along the fault zone, either due to mechanically forced openings during shearing of the relatively brittle limestone and dolomite or due to solution enlargement of fracture openings in the fault zone.

The second phase of the fault zone aquifer response is a log-log straight line with a quarter-unit slope. This type of response is termed "bilinear" flow. It is called bilinear because linear flow is taking place in two directions. One direction is parallel to the walls of the fault and toward the pumped well that penetrates the fault. This flow occurs in the same openings that previously released groundwater storage at the unit slope rate. The second direction is flow perpendicular to the walls of the openings, i.e., linear flow from the rock surrounding the openings into the openings. In this case, the openings are no longer releasing stored groundwater and the pumped water is provided by release of groundwater storage from the rock forming the walls of the openings. In this case, the quarter-unit slope response is interpreted to represent the release of groundwater storage from fractured rock in the fault zone and into the openings that provided the initial release of groundwater during the unit slope response.

The third phase of the fault zone aquifer response is a log-log straight line with a half-unit slope. This response indicates that late in the test, bilinear flow ceased and was replaced by linear flow because the "cone of depression" in the fault expanded to the

limits of the fault, where fracturing of the rock decreased to where groundwater is not stored or transmitted in significant amounts. Once these limits were reached, the zone of depressurization in the fault began to expand along the length of the fault zone, both directions away from the pumped well. All the pumped water was released from storage in the same materials that supported the earlier bilinear flow; however, the flow would now be entirely linear and parallel the walls of the fault zone, across the entire width of the fault, resulting in the log-log half-unit slope response.

The linear flow responses observed in the Eagle's Crest wells are very common in wells penetrating fractured rock aquifers. However, they are not normally exhibited by observation wells as far as 610 feet from the pumped wells, as is the case in the Eagle's Crest aquifer tests. The distance from the pumped well to which the log-log straight-line responses persist is a function of the fault zone dimensions and hydraulic properties as well as the geometry between the fault, the pumped well, and the observation well. Beyond a certain distance along the fault zone, as determined by all of the foregoing factors, the time-drawdown curve for linear flow in the fault zone should take on the shape of the Boehmer and Boonstra (1986) family of type curves shown on Figure 9.

Boehmer and Boonstra (1986) developed a drawdown equation to analyze the drawdown behavior along a pumped dike. Use of these curves allows an evaluation of the distance that linear flow is occurring along the dike in relation to the storativity and transmissivity of both the dike and aquifer. Figure 9 shows the family of type curves developed for the following equation.

$$s(x,t) = \frac{Q}{3.75\sqrt{T_d ST/S_d}} F(\chi, \tau)$$

Where

$s(x,t)$ = drawdown in the dike at a distance x from the pumped well (m) and pumping time t (d)

S = storativity of the aquifer, dimensionless

S_d = storativity of the dike, dimensionless

T = transmissivity of the aquifer, (m^2/d)

T_d = transmissivity of the dike, (m^2/d)

W_d = width of the dike, (m)

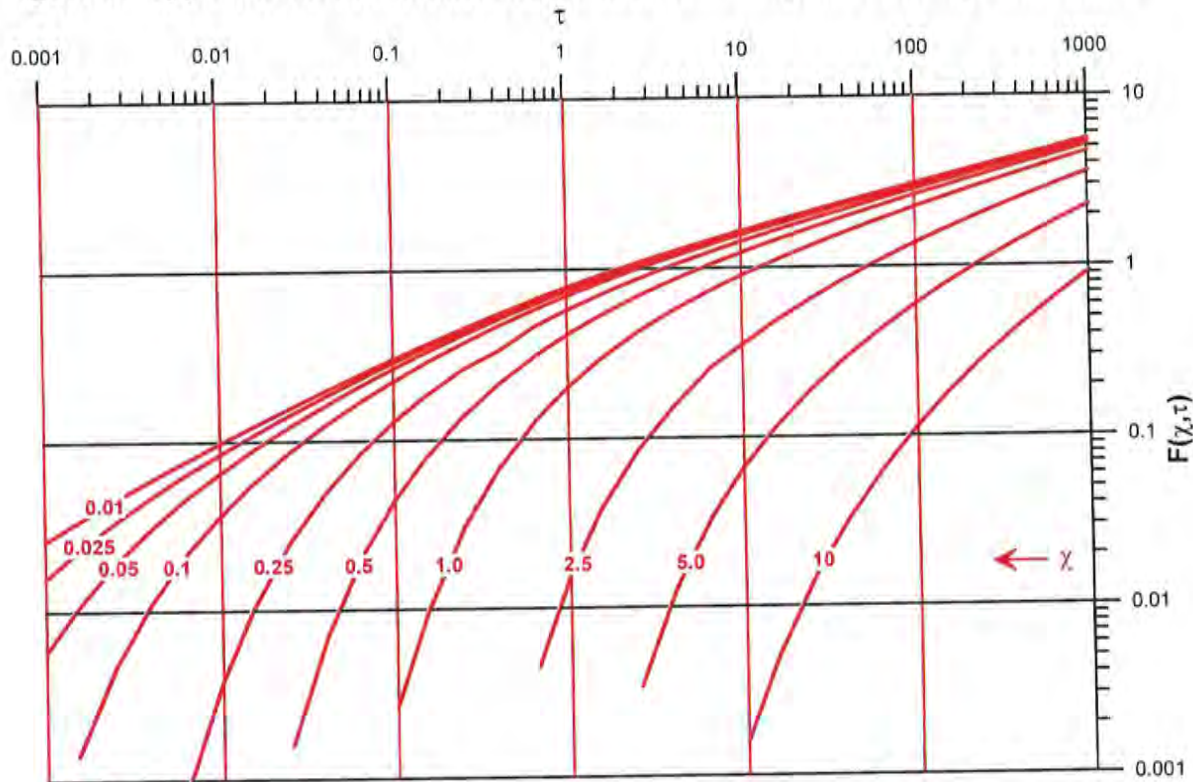
$$\chi = 1.88 \frac{x}{W_d \sqrt{S_d T_d / ST}}$$

$$\tau = 3.52 \frac{ST}{(W_d S_d)^2} t$$

However, instead of the linear flow response shown on Figure 9 for an observation well at a sufficient distance from the pumped well in a fracture or fault zone, the observation wells 610 feet distant from the pumped wells at Eagle's Crest exhibited strong log-log straight lines throughout the tests. This time-drawdown response between wells 610 feet apart, as shown on Figure 8, indicates that the drawdown in the fault zone at Eagle's Crest will not expand along the fault zone as far as would occur where the type of response shown on Figure 9 occurs at the observation well. This conclusion is

supported by observations made during the tests of the Eagle's Crest wells. Specifically, the water pumped during the tests of both wells was discharged to the dry stream channel that follows the surface trace of the fault zone, approximately 400 feet south of well PSW-1. The discharge water flowed down the stream channel for a small distance and then pooled. The pool of water infiltrated into the ground in less than 12 hours after each test was stopped.

Figure 9: Type curves for distant observation well response during linear flow.



Despite this fact, the discharge water did not circulate back into the depressurized zone around any of the pumped wells, thus indicating the depressurized zone did not extend far enough along the fault zone to provide a gradient for any discharge water circulating back into the fault zone to travel back to the pumped well (recall that the natural groundwater gradient is away from the pumped wells under the infiltration area). Thus, the depressurized zone around well PWS-1 at a 270 gpm pumping rate extended less than the 400 to 500 feet distance along the fault zone to where the pumped water was infiltrating back into the fault zone. Digital simulation of drawdown along the fault zone for 72 hours of constant pumping at 270 gpm predicts the 0.01-foot drawdown contour for the zone of depressurization would be 335 feet from the pumped well, i.e., less than the 400 to 500-foot distance to infiltration of the pumping test discharge water. The digital model used for this prediction is discussed later in this report.

The observation well responses described above provide a great deal of information about the hydraulics of the fault zone penetrated by the Eagle's Crest wells. They indicate a zone of fractured rock with an inner core containing very large open cavities which are hydraulically interconnected, but with enough resistance to flow to cause a small gradient between the pumped well and observation well during the pumping tests. The release of groundwater storage from the inner core voids during the early part of the pumping tests caused the log-log, straight-line time-drawdown response with a unit slope at the observation wells. The inner core is bounded by fractured rock which is the principal medium for storage and transmittal of groundwater in the fault zone. Release of groundwater storage in the fractured rocks into the inner core caused the log-log, straight-line time-drawdown response with a quarter-unit slope at the observation wells during intermediate pumping times. The fractured rock in the fault zone is bounded by relatively unfractured rock that does not yield enough groundwater into the fault zone to change the test response. When the depressurized zone in the fault reaches these relatively impermeable rocks that bound the fault, the observation wells exhibit the log-log, straight-line response with a half-unit slope at late pumping times.

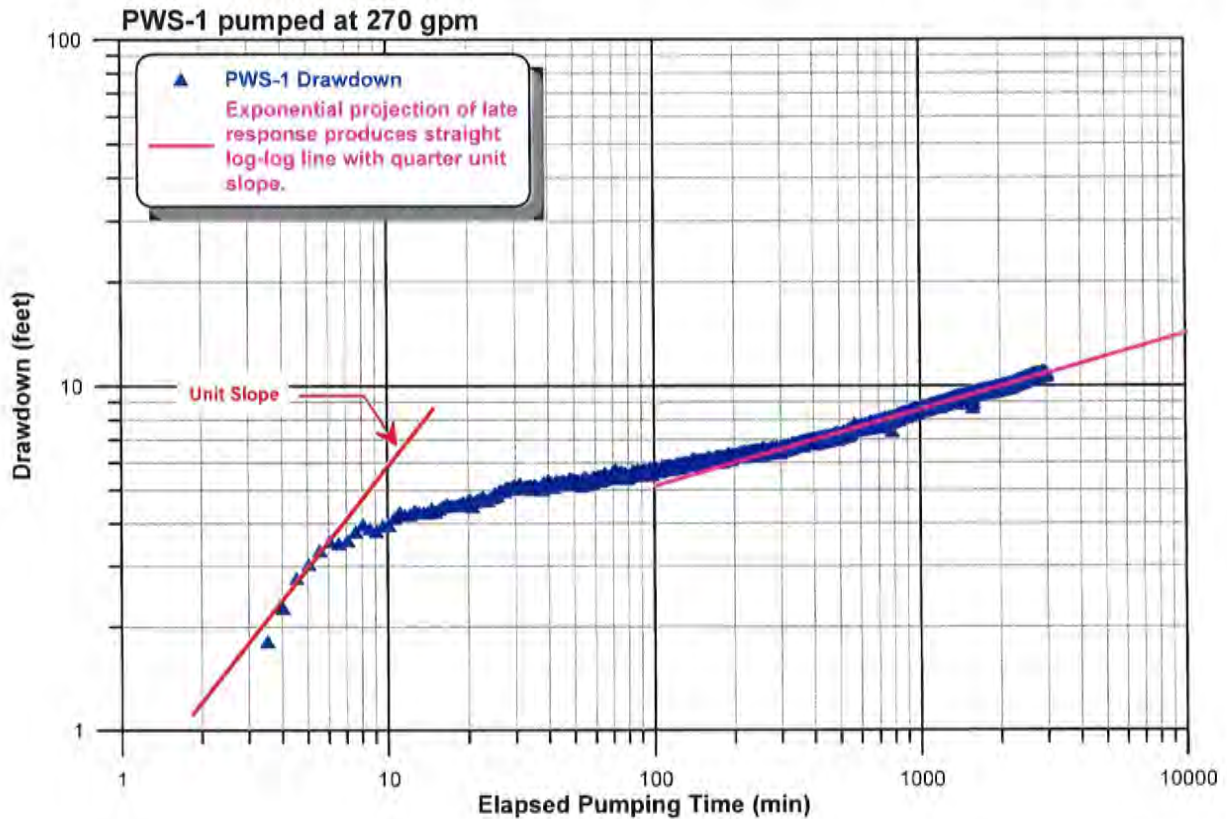
The foregoing pattern of aquifer response in the observation wells, 610 feet from the pumped wells, is very consistent with the geology of a large fault zone in a hard, brittle and somewhat soluble carbonate rock such as that at the Eagle's Crest wells. Accordingly, it is logical to expect that the time-drawdown response at the pumped wells should be similar, perhaps with the early and intermediate responses occurring so rapidly that they are not reflected in the time-drawdown data. The latter condition would result in a log-log, straight-line time-drawdown curve with a half-unit slope in the pumped wells.

Figure 10 shows the time-drawdown curve from observations in well PWS-1 when it was pumped at a constant rate of 270 gpm. Instead of the anticipated log-log straight line with a half-unit slope, the late aquifer test response exhibits a log-log straight line with a quarter-unit slope, long after the observation well response transitioned from the quarter-unit slope to a half-unit slope.

The latter response appears to be contrary to linear flow hydraulics. It should not be possible for the pumped well to continue a quarter-unit slope response after a half-unit slope response has been established in the observation well, particularly when the observation well is also producing log-log straight line responses, indicating a high degree of hydraulic connection along the fault zone between the pumped and observation wells. However, the nature of interconnectivity along the length of the fault or variability in the width of the inner core of the fault may explain the unusual response at the pumped well, PWS-1. The inconsistency between the responses at the pumped well and observation wells might be attributed to differences in the size of the inner core porosity penetrated by the wells at the two different locations. Penetration of a large void or a wide zone of highly brecciated rock with, 50 to 80 percent or more porosity, by well PWS-1 is consistent with its relatively larger yield and would allow groundwater to be released from storage in the fractured rock bounding the core zone for a longer

period of time that at other locations along the fault where less void space or open porosity is present.

Figure 10: Time-drawdown response in pumped well PWS-1.



Even more light is shed on the complexity of hydraulic conditions along the fault zone by the response of well PWS-2 to pumping. Figure 11 shows the time-drawdown response in pumped well PWS-2 at 110 gpm and Figure 12 shows the response in PWS-2 at 160 gpm. At the 110 gpm pumping rate, the unit slope and quarter-unit responses occur too quickly to be plotted; however, an early half-unit slope response is present. The early half-unit slope response indicates the core zone penetrated by the well did not have as much storage as that penetrated by well PWS-1 and, therefore, did not support either the unit slope or quarter-unit slope response as long as the core zone penetrated by well PWS-1. This effect is consistent with the reduced yield and increased well loss drawdown observed at this well.

After approximately 24 minutes of elapsed pumping time, both the 110 gpm and 160 gpm tests of well PWS-2 exhibit an abrupt decrease in the rate of drawdown, approaching nearly stabilized drawdown. This response is not the result of pumped water infiltrating back into the depressurized zone, since the pumped water is discharged at a location 400 feet past well PWS-1 and there is no evidence of a recharge boundary in the response of well PWS-1 (Figure 8). Accordingly, the only

explanation for the response shown on Figures 11 and 12 is that the zone of depressurization expanding north along the fault zone encountered an area of greatly increased hydraulic conductivity and transmissivity that acts as a recharge or partial recharge boundary. This effect does not appear in the time-drawdown response at well PWS-1 because it is further from the zone of higher transmissivity and its depressurized zone therefore did not extend to the zone of higher transmissivity within the duration of the pumping test. This suggests that it may be possible to pump well PWS-1 for a sufficiently long duration to extend its effects to the high-transmissivity part of the fault and obtain stabilized drawdown in that well also.

Figure 11: Time-drawdown response in pumped well PWS-2 at 110 gpm.

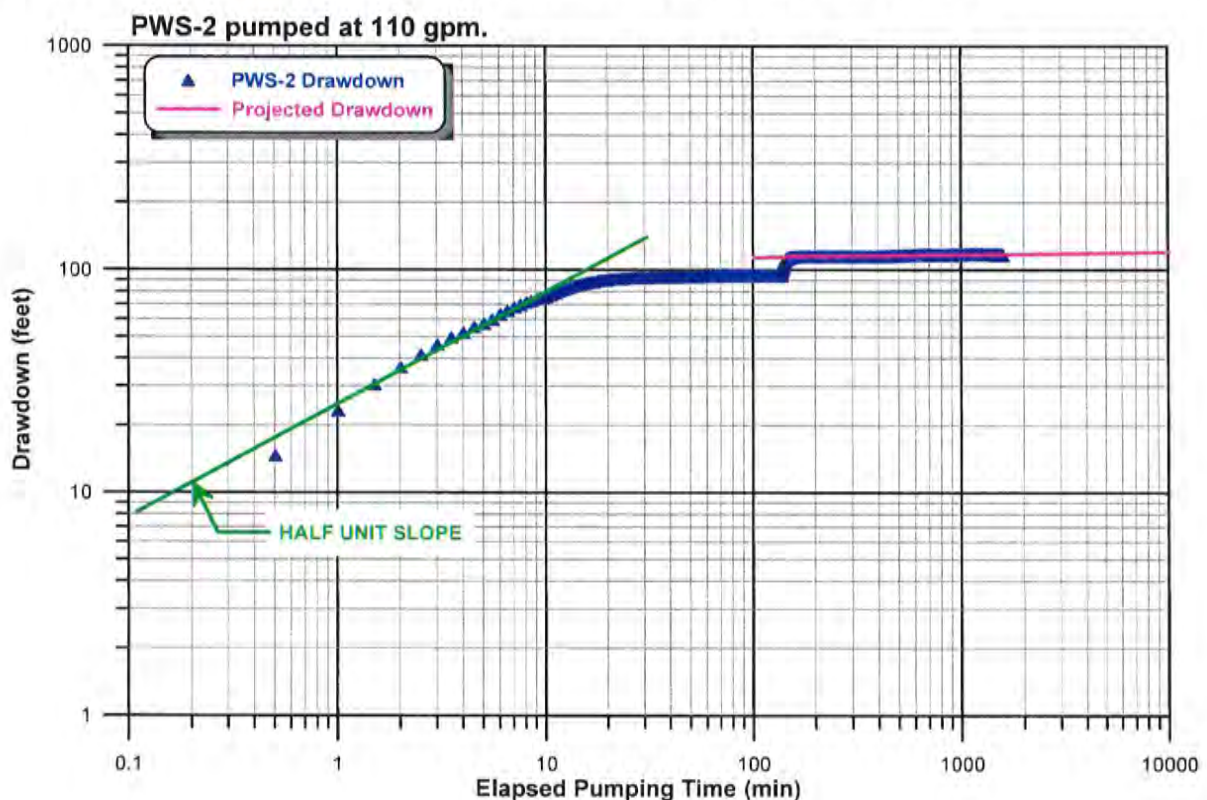
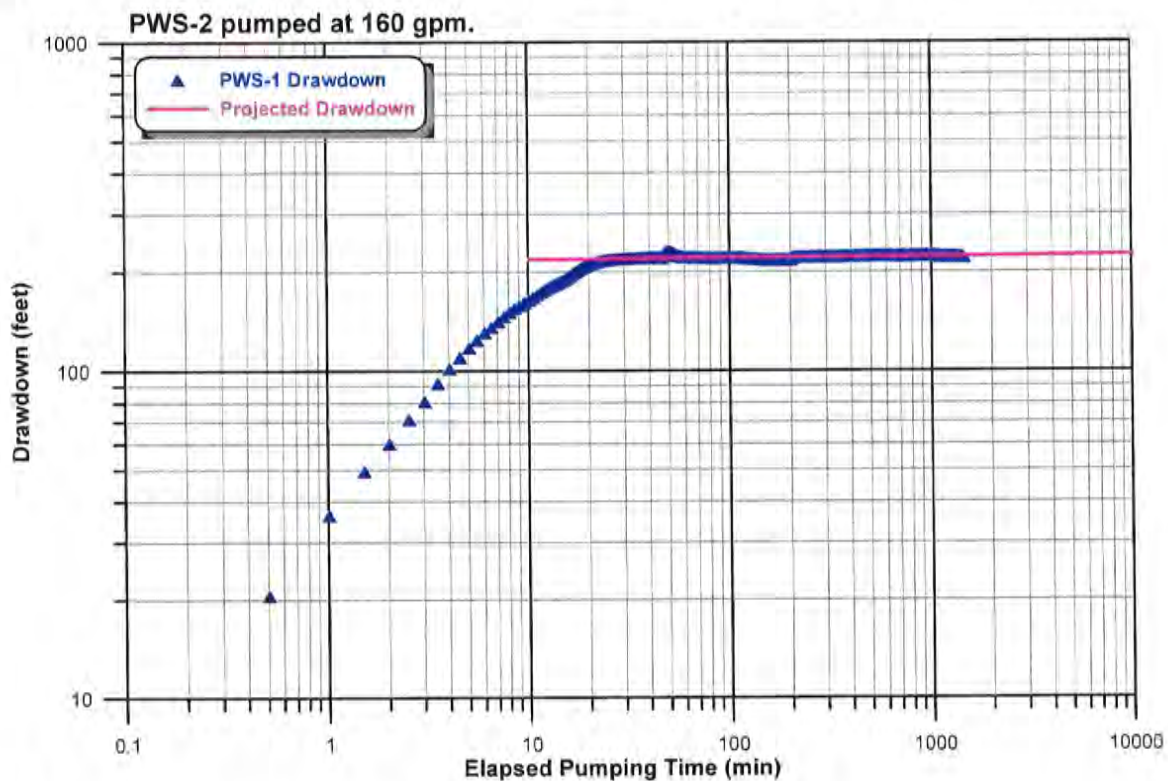


Figure 12: Time-drawdown response in pumped well PWS-2 at 160-gpm.



GW.6.A.4 Conceptual Aquifer Model

Although the time-drawdown responses discussed above reveal considerable information about the nature of groundwater storage release and groundwater flow in the fault zone penetrated by the Eagle's Crest wells, an analytical solution that can use the time drawdown data to solve for the hydraulic properties of the fault zone materials is not available. As an alternative to a deterministic analytical solution, such as the Boehmer and Boonstra (1986) solution, a digital model of the Eagle's Crest fault zone was compiled and used to simulate groundwater flow and the change in groundwater storage along the fault zone when the Eagle's Crest wells are pumped.

Based on the local geology of the well sites, an average fault zone width of 91 feet was used for the model. A value of 91 feet instead of 90 was used so that symmetrical fault zone hydraulics could be maintained on both sides of a core zone in the model. The fault zone model length was extended beyond 158,000 feet to make the fault zone aquifer length infinite for modeling purposes. A one-foot grid spacing was established across the entire width of the fault zone and for a distance of 400 feet each way from the center of the fault zone length. Beyond 400 feet each way from the center of the model length, the one-foot grid spacing was changed to a non-uniform spacing expanding at a multiplier of 1.2 out to a total distance of 78,021.28 feet from the model center. The pumped well/observation wells were centered in the one-foot grid spacing,

each well 605 feet from the center of the model length and centered in the central model column 40 feet from each side of the simulated fault zone.

The model was divided (unnecessarily) into five layers. The uppermost layer was used as a confining layer because most of the fault zone offers attributes of a confined aquifer (see Section 1.2.3 Hydrogeology for more detailed explanation). Three other layers represent the aquifer thickness. One layer would suffice for this purpose, but the model was initially configured in a manner that the voids in the core of the fault could be represented, if desired, by cells constrained vertically to the middle of the aquifer thickness. This did not prove to be necessary, but the model structure was not later modified to eliminate the unnecessary layers. The fifth model layer is a layer of inactive cells at the bottom of the active model layers, i.e., a confining layer at the bottom of the aquifer. The use of confining layers at the top and bottom of the aquifer allows the model to simulate maximum drawdown, observed or predicted, while retaining a constant specific storage value.

The model uses two zones for hydraulic conductivity and two zones for specific storage. The hydraulic conductivity and specific storage zones coincide with regards to distribution across the model domain, both vertically and horizontally through all active model layers. Zone 1 for hydraulic conductivity and storativity is two strips 4 feet wide each, the full length of the model, starting at the outside boundary of each side of the fault and extending 4 feet into the fault zone from the outside boundaries. The zone 1 hydraulic conductivity is 200 ft/day and storativity is 5×10^{-4} . Zone 2 is one foot wide in the center of the model and extends the full length of the model. The hydraulic conductivity of zone 2 is 40 ft/day and the storativity is 1.33.

The model is operated with MODFLOW 2000 and the PCG2 solver using Groundwater Vistas 5 as the graphic user interface. Three stress periods were used for calibration of the model to the 3-day test response observed in PWS-2 when PWS-1 was pumped at 270-gpm. The first stress period is 1 day long with one time step and is therefore a steady state step. The second stress period is 3 days long, conforming to the pumping test duration, and divided into 60 steps using a time step multiplier of 1.2 and a pumping rate of 270 gpm (51,971.66 ft³/day). The third stress period is 3 days long with a pumping rate of zero for recovery and is divided into 60 time steps with a time step multiplier of 1.2. The model thus configured is calibrated to the time-drawdown response in PWS-2 with PWS-1 pumped at 270 gpm.

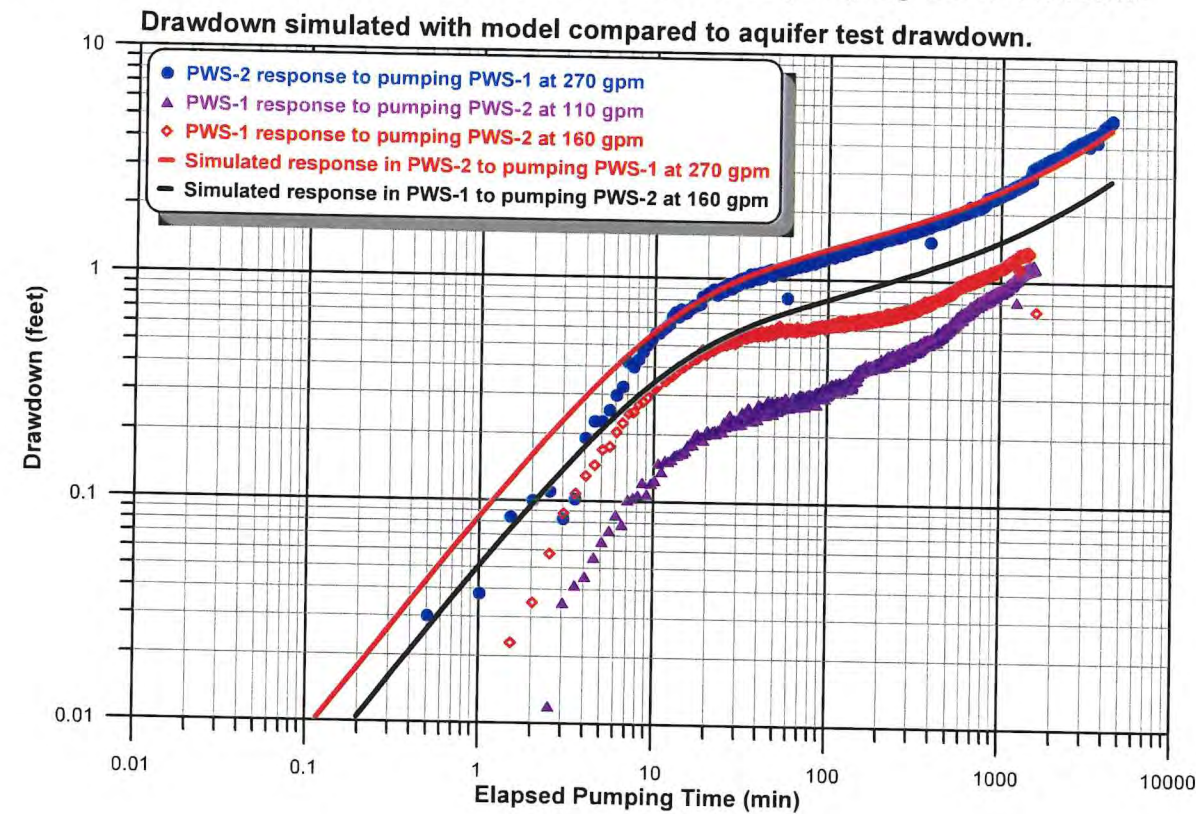
The latter calibration of the model to the transient pumping test response offers two idiosyncrasies. One is that the storativity value of 1.33 in zone 3 is necessary to properly match the pumping test data. The second is that the data matched to the observation well data from the pumping test are the data from the pumped well in the model. The model will not produce a response at the modeled observation well that has log-log straight-line responses as observed in the pumping test. Instead, the model consistently produces the type of hydraulic response represented by the linear flow type curves for a distant observation well in a fracture or fault zone, as shown on Figure 9, for a modeled observation well 610 feet from the pumped well in the model.

The latter differences between the model and observed data are due to two factors. One factor is that highly interconnected void spaces are necessary in the fault zone penetrated by the Eagle's Crest wells to produce the unit slope response at the beginning of the tests as well as the log-log straight lines in the observation well response. In other words, the fault zone acts to a large extent as a single large well that includes both the pumped well and the observation well, regardless of which well is pumped. This response is difficult to produce in a digital model although more work might be accomplished along this line of investigation. The second factor is that while both wells are responding to interconnected void space in the fault zone, various unidentified friction losses or semi-turbulent flow losses may be in effect. This is evident in the fact there is a head loss of 4 to 5 feet between the pumped well and observation well during the 270 gpm test, i.e., a hydraulic gradient between the wells, despite the log-log straight-line responses at both wells. Thus, the interconnection of the inner core voids along the fault zone is great enough to allow the observation well to exhibit log-log straight lines but still offers some resistance to flow. As noted in the discussion of pumped well response, other factors vary considerably along the length of the fault affected by the pumping tests. All of these complexities must be generalized in a digital model because there is not sufficient data to quantify them.

In view of the latter considerations, a generalized model in which the pumped well response in the model is matched to the observation well time-drawdown data from the aquifer test was selected as an approach to minimize the effects of well losses at the pumped well and losses due to flow along the fault between the pumped well and observation well during the aquifer test. Likewise, the latter considerations are used to justify the application of a 1.33 storativity value in zone 2 of the model. Figure 13 shows the simulated drawdown from the pumped wells in the model matched to the responses observed during the aquifer tests.

The fit of the simulated drawdown to the unit slope responses in the early test data is reasonably good for the 270 gpm test data from observation well PWS-2, but appears to over-predict for the 160 gpm test response in observation well PWS-1. The latter difference is because the 160 gpm test was started only 30 minutes after a 110 gpm test, thus the "unit slope" curve is affected by the earlier pumping. In both cases, the model simulates drawdown that is conservatively larger than the aquifer test drawdowns in the early data. The remainder of the simulated drawdown fits the PWS-2 observed drawdown well, if shifts in the observed data for adjustments of the discharge rate are taken into account. The simulated drawdown in well PWS-1 with PWS-2 pumped at 160 gpm fits the intermediate data reasonably well; however, it over-predicts the late response to the pumping test because the model does not include the recharge boundary effects that were evident in the field test and discussed above. That is to say, the model does not simulate stabilization of the drawdown as occurred during the pumping test and therefore provides a conservatively large estimate of long-term drawdown. Accordingly, the model calibration was considered complete when the matches to the pumping test data shown on Figure 13 were obtained.

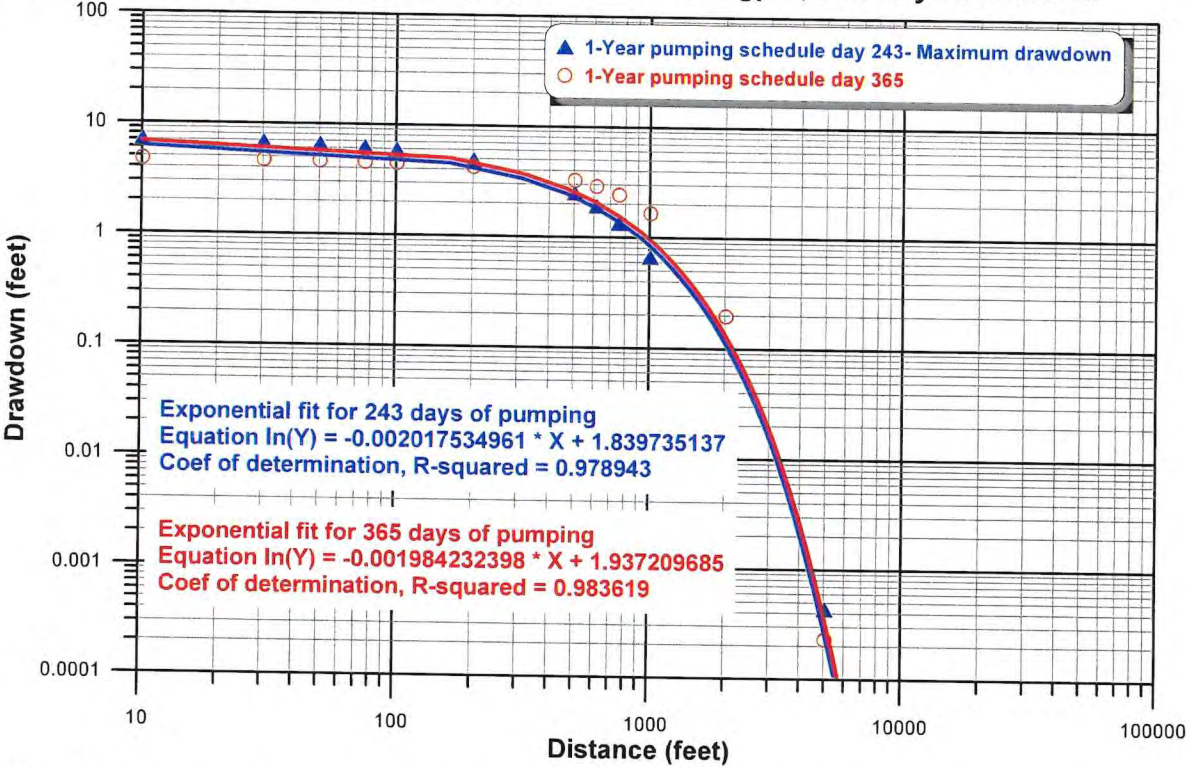
Figure 13: Simulated model drawdown compared to pumping test drawdown.



The model thus calibrated was used to simulate drawdown that would occur at the average daily pumping rate for one year. The daily pumping rate was calculated as the average daily rate to provide the annual volume of 74.9 acre-feet per year requested by the Applicant. This is equivalent to a 24-hour-per-day, 7-day-per-week average pumping rate of 46.4 gpm. The purpose of the 46.4 gpm, 365-day simulation was to estimate the area of the aquifer that would be affected by the 74.9 ac-ft/yr of groundwater abstraction. Figure 14 shows the distance-drawdown relationship for the 365-day simulated drawdown of water levels in the fault. The simulated drawdown does not take into account the effect of a zone of greater transmissivity in the fault zone north of the two Eagle's Crest wells as indicated by the pumping test results and, therefore, likely over-predicts drawdown.

Figure 14 shows a distance drawdown curve for 243 days of pumping, which under the seasonal pumping schedule, is the time of maximum drawdown in the fault zone. After 243 days of pumping, the pumping rate declines. A second distance drawdown curve is shown for 365 days of continuous pumping, and as indicated by the plot on Figure 14, does not predict substantially different drawdown than the 243-day curve. If the terms in the 365-day curve are rearranged and solved for a drawdown value of 0.01 feet, the equation predicts a distance of 3,297 feet from the pumped well to a drawdown contour

Figure 14: Distance-drawdown projection for 46.4-gpm, 365-day simulation.



of 0.01 feet in the fault zone. This is assumed to be the limit of the area affected by the average daily pumping rate of 46.4 gpm over 365 days, in each direction from the two pumped wells. It is assumed the distance should be plotted from each well, respectively, to estimate the drawdown from that well out into the fault zone, since both wells operate in concert according to the pumping test results showing linear flow response at the observation wells. Accordingly, the affected area would extend away from each of the two pumped wells a distance of 3,297 feet in the fault zone which is assumed to be 91 feet wide in the calibrated model.

Form 653

Variance Request



VARIANCE REQUEST

ARM 36.12.123
Form No. 653 (Revised 01/2024)

For Department Use Only

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 for completion of the preapplication meeting form or if a preapplication meeting is not held, include this request with your filed application or as part of a deficiency response.

Application # _____ Basin _____
Received Date _____
Received By _____

Applicant Name Lakeside County Water & Sewer District
Mailing Address 253 Bierney Creek Road
City Lakeside **State** MT **Zip** 59922
Home Phone _____ **Other Phone** 406-844-3881
Email: rodneyolson@lcwsd.net

Representative Name (if other than Applicant) Water & Environmental Technologies, Brad Bennett
☒ Representative is Consultant ☐ Representative is Attorney ☐ Representative is Other (describe) _____
Mailing Address 102 Cooperative Way, Suite 100
City Kalispell **State** MT **Zip** 59901
Home Phone _____ **Other Phone** 406-309-6085
Email: bbennett@waterenvtech.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
 - ☐ (2)(b) well logs of production and observation wells
 - ☐ (2)(c) electronic Form No. 633
 - ☒ (3)(a) constant pumping rate
 - ☐ (3)(b) pumping rate equal to or greater than proposed flow rate
 - ☐ (3)(c) pumping requirements for multiple well systems
 - ☐ (3)(d) measurement and recording of pumping rate
 - ☐ (3)(e) pumping duration and drawdown and yield tests
 - ☐ (3)(f) observation well monitored
 - ☒ (3)(g) background groundwater levels monitored
 - ☐ (3)(h) water level measurement precision

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.

Aquifer testing was completed in 2007. During the 72-hour pump test performed on PWS-1, background data was not collected in the observation well (PWS-2) necessitating a variance to the requirements of ARM 36.12.121(3)(g). During the pumping test on PWS-2, the flow rate varied in

- ☐ ARM 36.12.1702 Physical Surface Water Availability
- ☐ (1)(b) perennial and intermittent stream measurement
 - ☐ (4) other source type measurements

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.



Form 653 – Variance Request

ARM 36.12.121(3)(a)

PWS-1 Test at 270 gpm

The 72-hour test completed on PWS-1 was performed at an average rate of 270 gpm. Per the records provided by MMI, the flow rate varied from 265 gpm to 272 gpm – within 1.9-percent. No variance is required for this test.

PWS-2 Test at 110 gpm

The 26-hour test completed on PWS-2 at a rate of 110 gpm. Overall, the flow rate varied from 95 to 110 gpm – up to 13.6-percent of 110 gpm. The test was completed at an average flow rate of 100 gpm for the initial 135 minutes and then the flow rate was increased to 110 gpm for the remainder of the test. The flow rate varied by only 4.5-percent after being increased from 100 gpm to 110 gpm. Between 14:20 8/27/2007 and 13:57 8/27/2007 (a total of 23.6 hours) the flow rate was consistently measured at 110 gpm, except for one measurement at 105 gpm, which occurred at t=157 minutes. The flow data collected during the aquifer pumping test make the data useful in estimating aquifer properties and demonstrate that the well is capable of prolonged pumping at 110 gpm.

PWS-3 Test at 160 gpm

The 24.5-hour-plus test completed on PWS-2 at a rate of 160 gpm. The test was completed at an average flow rate of 170 gpm for the initial 40 minutes and then the flow rate was decreased to 160 gpm for the remainder of the test. Overall, the flow rate varied from 150 to 175 gpm – up to 9.4-percent of 160 gpm. The flow rate varied by only up to 6.3-percent after being decreased from 170 gpm to 160 gpm. One flow measurement, occurring at t=64 minutes was measured at 150 gpm. This flow rate is between two flow measurements of 160 gpm, occurring at t=60 and t=65 minutes respectively. The dip in flow rate was relatively short and appears to have been addressed immediately. After t=65 minutes, the flow rate varied by 3.1-percent. However, between 18:35 8/28/2007 and 14:18 8/29/2007 (a total of 19.7 hours) the flow rate was consistently measured at 160 gpm. The flow data collected during the aquifer pumping test make the data useful in estimating aquifer properties and demonstrate that the well is capable of prolonged pumping at 160 gpm.

ARM 36.12.121(3)(g)

PWS-1 Test at 270 gpm

Background data were not collected in the observation well for at least two days prior to the start of the 72-hour test on PWS-1. The observation well is located in the same bedrock aquifer (as evidenced by the water level response to pumping of PWS-1 and the lithology). As such, it is reasonable to assume that the background trend occurring in PWS-1 is relatively consistent with the background trend occurring in PWS-2.

Further, measurable drawdown and recovery were observed in PWS-2 (observation

well) allowing for estimates of hydraulic characteristics to be made from the available data.

PWS-2 Test at 110 gpm

Background data are limited to approximately 30 minutes prior to the start of the 26-hour test on PWS-2. However, background data are not required for this test, as it is serving as the equivalent to an 8-hour yield-drawdown test as allowed in ARM 36.12.121.

PWS-2 Test at 160 gpm

Background data are limited to approximately 30 minutes prior to the start of the 24-hour test on PWS-2. However, background data are not required for this test, as it is serving as the equivalent to an 8-hour yield-drawdown test as allowed in ARM 36.12.121.