September 23, 2016

Re: Preliminary Order Requiring Measuring Devices for Ground Water Diversions in Water District No. 161, Mountain Home Area

Dear Water User,

The Idaho Department of Water Resources ("IDWR") has issued the enclosed Preliminary Order ("Order") requiring installation of measuring devices for ground water rights and diversions within Water District 161, the Mountain Home area. The enclosed Order is a preliminary order pursuant to Section 67-5243, Idaho Code. Any party may file a petition for reconsideration of a preliminary order as explained in the enclosed information sheet.

Please note that flow meters must be installed on ground water irrigation diversions by the start of the 2019 irrigation season and on non-irrigation diversions by January 1, 2019. The Order excludes the following ground water uses and diversions unless further notified by IDWR:

a. Domestic and stockwater uses as defined by Section 42-111, Idaho Code;
b. Diversions for irrigation uses less than or equal to five (5) acres; and
c. Non-irrigation uses with a total rate of diversion less than or equal to 0.24 cubic feet per second (approximately 108 gallons per minute).

Please refer to the enclosed documents "Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices" and "List of Approved Closed Conduit Measuring Devices" for information on types of IDWR acceptable measuring devices. These documents and other information on the topic are available on IDWR’s website: www.idwr.idaho.gov ➔ Water Data ➔ Water Measurement ➔ Guidelines.

If you have questions concerning this Preliminary Order or IDWR’s water measurement standards, please contact the IDWR State office (208-287-4800) or Western Regional office (208-334-2190).

Respectfully,

Tim Luke
Water Compliance Bureau

Encl: Preliminary Order; Explanatory Information to Accompany a Preliminary Order; Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices; List of Approved Closed Conduit Measuring Devices

C. Nick Miller, IDWR Western Region & WD161 Watermaster
On February 29, 2016, the Idaho Department of Water Resources ("Department") issued a Preliminary Order Creating Water District No. 161 ("Preliminary Order") for the purpose of administering ground water rights in the Department’s Administrative Basin No. 61 and a portion of Administrative Basin No. 63. The Preliminary Order excluded ground water rights used for domestic and stock water purposes as defined by Idaho Code §§ 42-111 and 42-1401A(11).

A primary purpose of a water district is the administration of water rights and distribution of water within the water district by a watermaster. Idaho Code § 42-602. The watermaster delivers the flow rate and/or volume authorized by the water right to the water right holder by measuring diversions and adjusting controlling works. Idaho Code § 42-607. To ensure accuracy of the distribution of water, the Director of the Department can require installation of a measuring device by a water right holder to assist a watermaster in the administration and distribution of water in a water district. Idaho Code § 42-701.

To assist the watermaster of Water District No. 161 ("WD161") in the administration of ground water rights, ground water right holders must install measuring devices on ground water diversions within WD161.

FINDINGS OF FACT

1. On May 7, 1981, the Department created the Cinder Cone Butte Critical Ground Water Area ("CCBCGWA") recognizing that "the available resource is limited" and that "localized water level declines are occurring within the aquifer system." The boundary of the CCBCGWA covers an area of ground water development located northwest of Mountain Home.

2. On November 9, 1982, the Department created the Mountain Home Ground Water Management Area ("MHGWMA") based on the conclusion of a water study conducted by the Department “that the anticipated recharge of ground water to the area is exceeded by anticipated ground water discharge.” The MHGWMA boundary covers a fairly large area around Mountain Home and also surrounds the CCBCGWA.

3. On February 29, 2016, the Department issued the Preliminary Order creating WD161, which includes ground water rights in the Department’s Administrative Basin No. 61 and a portion of Administration Basin No. 63 near Mountain Home, except ground water rights used for domestic and stock water purposes as defined by Idaho Code §§ 42-111 and 42-1401A-(11).

4. Paragraph four of the Preliminary Order creating WD161 states “[t]he Department shall issue a separate order requiring the installation of measuring devices and controlling works for water right diversions within [WD161].”
5. The first annual meeting of the water users of WD161 was held on June 28, 2016. At the meeting, the water users elected a watermaster and selected an advisory committee in accordance with Idaho Code § 42-605.

6. The advisory committee of WD161 met on July 26, 2016. Department representatives and the watermaster were present during the meeting and discussed with the advisory committee the issuance and implementation of a measuring device order for diversions in the water district. Based on discussion with Department representatives, the committee recommended that measuring devices be installed over an approximate three year period so that meters are installed on all qualifying irrigation wells by the start of the 2019 irrigation season. The committee further recommended exempting measuring device requirements for wells used for irrigation of ten acres or less, and wells used for non-irrigation uses where the well diversion rate is less than or equal to 0.24 cubic feet per second (“cfs”).

7. The Department typically excludes the following types of water right diversions from water district wide water measurement orders:

   a. Domestic and stock water uses as defined by Idaho Code §§ 42-111 and 42-1401A(11);

   b. Diversions of ground water or water systems with multiple diversions irrigating less than or equal to five acres; and

   c. Diversions of ground water or water systems with multiple diversions delivering ground water for any purpose other than irrigation that divert less than or equal to 0.24 cfs (approximately 108 gallons per minute).

8. Domestic and stock water uses defined by Idaho Code §§ 42-111 and 42-1401A(11) are not included in WD161, or other water districts in Idaho that administer ground water rights.

9. The Department typically excludes from measurement orders ground water diversions used for irrigation of five acres or less because inclusion of such uses normally adds a large number of diversions to measure and results in additional workload and budget for the water district. Although the number of diversions irrigating five acres or less is typically significant, the total amount of water use is relatively small compared to the remaining water uses and water rights in water districts. To illustrate, according to water rights records on file with the Department, there are approximately 460 ground water rights included in WD161 that authorize use of ground water from approximately the same number of ground water diversions or wells. The 460 water rights have a combined diversion rate of about 585 cfs. Approximately 140 (30%) of the 460 ground water rights in the district authorize irrigation of five acres or less, however, those same 140 ground water rights represent less than 2% of the collective rate of diversion of all 460 ground water rights with a combined rate of diversion of approximately 10.7 cfs.

10. The Department also typically excludes from measurement orders non-irrigation ground water diversions that divert 0.24 cfs or less because many non-irrigation ground water rights that technically meet the domestic exemption criteria of Idaho Code §§ 42-111 and 42-1401A(11) have diversion rates up to 0.24 cfs. In other words, many non-irrigation ground water rights with diversion rates less than 0.24 cfs could legally divert ground water even without a water right. Additionally, the number of diversions for such rights can be significant while total water use is small.
11. As stated above, the WD161 advisory committee recommended the Department exempt measuring device requirements for wells used for irrigation of ten acres or less instead of five acres or less. There are forty-three ground water rights in WD161 authorizing irrigation of more than five acres and less than or equal to ten acres. Thirteen of the forty-three rights already have water right conditions requiring water measurement and annual reporting for which the Department has no data and/or evidence of compliance. An additional eleven of the forty-three rights are diverted from wells described as points of diversion by other water rights where the total rate of diversion exceeds 0.24 cfs and/or the total number of irrigated acres is greater than the ten acre limit recommended by the WD161 advisory committee. Moreover, all but two of the forty-three rights are located within the MHGWMA and the CCBCGWMA.

12. The Department’s Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices (“Minimum Measurement Standards”) require installation of a certified flow meter on closed conduit or pipe line diversions. Minimum Measurement Standards at 2. Many ground water delivery systems pressurize closed conduits to convey and apply the water. The Minimum Measurement Standards allow alternative meters or methods to be employed if such meters or methods “will produce similarly accurate results.” Id. The power consumption coefficient (“PCC”) measurement method is an alternative method that the Department may consider and approve for “qualifying irrigation diversions only.” Id. The PCC is a ratio of power usage to water withdrawal, whereby power usage recorded by an electrical meter is used to approximate water usage in lieu of installing a water meter.

CONCLUSIONS OF LAW

1. Idaho Code § 42-233a, provides in pertinent part:

   The director may require all water right holders within a critical ground water area to report withdrawals of ground water and other necessary information for the purpose of assisting him in determining available ground water supplies and their usage.

2. Idaho Code § 42-233b, provides in pertinent part:

   The director may require all water right holders within a designated [ground] water management area to report withdrawals of ground water and other necessary information for the purpose of assisting him in determining available ground water supplies and their usage.

3. Idaho Code § 42-701 provides in pertinent part:

   42-701 INSTALLATION AND MAINTENANCE OF CONTROLLING WORKS AND MEASURING DEVICES BY WATER APPROPRIATORS – PROCEDURE UPON FAILURE TO INSTALL AND MAINTAIN – MEASURING AND REPORTING OF DIVERSIONS – PENALTY FOR FAILURE TO COMPLY – REPORT FILING FEE.

   (1) The appropriators or users of any public waters of the state of Idaho shall maintain to the satisfaction of the director of the department of water resources suitable headgates and controlling works at the point where the water is diverted.
Each device shall be of such construction that it can be locked and kept closed by the watermaster or other officer in charge, and shall also be of such construction as to regulate the flow of water at the diversion point. Each such appropriator shall construct and maintain, when required by the director of the department of water resources, a rating flume or other measuring device at such point as is most practical in such canal, ditch, wellhead or pipeline for the purpose of assisting the watermaster or department in determining the amount of water that may be diverted into said canal, ditch, wellhead or pipeline from the stream, well or other source of public water. Plans for such headgates, rating flumes or other measuring devices shall be approved by the department of water resources.

(2) If an appropriator determines that installation and maintenance of a measuring device required by the director would be burdensome for his diversion, the appropriator may, upon approval of the director, execute an agreement with the director and submit to the director such information and technical data concerning the diversion and pumping facilities as the director determines necessary to establish the relationship of power usage to water withdrawal by any pump used to divert public water.

(3) Any appropriator or user of the public waters of the state of Idaho that neglects or refuses to construct or maintain such headgates, controlling works, or measuring devices,..., upon receiving ten (10) days’ notice from the director of the department of water resources within which to begin and diligently pursue to completion the construction or installation of the required device or devices or to begin and diligently pursue to completion a remedy to such defects as exist in accordance with said notice, then the director of the department of water resources may order the duly qualified and acting watermaster of the water district to shut off and refuse to deliver at the point of diversion, the water owned by such appropriator or user until the user does construct and maintain such headgates, controlling works or measuring devices or remedy the defects which exist or the director may take action pursuant to section 42-1701B, Idaho Code, to enforce the requirement to construct, install or maintain such devices.

(4) The appropriators or users of the public waters of the state of Idaho shall be given a reasonable time within which to complete construction of such headgates, controlling works or measuring devices, depending upon the size and extent thereof, when due diligence has been used in the prosecution of such work.

4. Measurement of diversions is necessary in WD161 for the proper distribution of water and administration of water rights. Measurement of diversions has the following administrative benefits:

i. Collective quantification of ground water withdrawals assists the Director of the Department, the water district, and local ground water right holders in determining the available ground water supplies and usage;

ii. Quantification of individual ground water withdrawals creates the necessary evidence to ensure ground water rights are used within their authorized diversion limits and that withdrawals can be regulated to the authorized diversion limits of the water rights when such limits are exceeded; and
iii. Collective and individual quantification of ground water withdrawals establishes an equitable, defensible and legal basis for determining water user assessments since Idaho law requires that expenses of the water district be based on water delivery.

5. The Director should require installation of measuring devices for diversions of ground water within WD161. As explained in Finding of Fact 11, a majority (56%) of the forty-three ground water rights in WD161 authorizing irrigation of more than five acres and less than or equal to ten acres either already have water right conditions requiring water measurement or are diverted from wells described as points of diversion by other water rights where the total rate of diversion exceeds 0.24 cfs and/or the ten acre irrigation limit recommended by the WD161 advisory committee. Further, all but all but two of the forty-three rights are located within the MHGWMA and the CCBCGWA where measurement and determination of ground water withdrawals is especially necessary. Accordingly, the Director should require measurement of all ground water rights in the water district used for irrigation of more than five acres and all non-irrigation ground water rights having a diversion rate greater than 0.24 cfs.

ORDER

IT IS HEREBY ORDERED that:

1. The holders of water rights in WD161, except those ground water rights, uses and diversions identified below, shall install and maintain on each point of diversion or well, a measuring device of a type acceptable to the Department. Owners of irrigation wells or diversions that are required to be measured shall install acceptable measuring devices by the start of the 2019 irrigation season. Owners of non-irrigation diversions that are required to be measured shall install acceptable measuring devices by January 1, 2019.

2. The measuring and reporting required by this order is waived until further notification by the Department for the following ground water uses and diversions:

   a. Domestic and stockwater uses as defined by Idaho Code §§ 42-111 and 42-1401A(11);

   b. Diversions of ground water or water systems with multiple diversions irrigating less than or equal to five acres; and

   c. Diversions of ground water or water systems with multiple diversions delivering ground water for any purpose other than irrigation that divert less than or equal to 0.24 cfs (approximately 108 gallons per minute).

3. Measuring devices acceptable to the Department for wells required to be measured shall be flow meters identified in the Department’s List of Approved Closed Conduit Flow Meters (Version 2.9 updated 8-22-2016) (copy attached). These specifications apply to wells used for both irrigation and non-irrigation water uses.
4. The Department will consider a request for variance of the Department approved flow meter requirement upon submittal of a written plan to the Department. Acceptable variances may include the following methods or devices:

- Development of a PCC to approximate water withdrawals. A PCC-based variance will only be considered for irrigation diversions that consist of one (1) well and one irrigation discharge point or one distinct flow and demand condition, and water levels do not change significantly during the irrigation season (example: a well diverting water to one center pivot only with no end gun, a well diverting water to one wheel line, or multiple wheel lines as long as the same multiple wheel lines are always on at the same time);

- Timing diversion with an hour meter (time clock) for one well that discharges to an open ditch or pond where a) discharge is constant and not controlled by valves, b) ground water levels do not change significantly during the annual season of use, and c) the rate of flow is measured annually by the water district watermaster or an examiner or hydrographer approved by the Department;

- Measurement with a properly functioning flow meter that was installed prior to the date of this order, and determined as acceptable by the Department (meters installed prior to the date of this order and included in the Department's List of Approved Closed Conduit Flow Meters version 2.9 are deemed acceptable while others will require approval); and

- Measurement with a standard open channel measuring device installed in an open channel or ditch for measuring multiple wells in a well field and the measuring device is read daily, or daily flows are recorded by use of a continuous recorder or data logger.

5. Requests for variance must be submitted to the Department and will be considered by the Water District watermaster and the Department on a case-by-case basis. Variances proposing measurement with an existing flow meter or measuring device must satisfy Department criteria and accuracy tests. Existing meters or measuring devices that do not satisfy standards, or that fail, must be replaced with an approved flow meter unless another variance is obtained. Requests for variance must be made using the Department's form "Request for Variance of IDWR Approved Flow Meter Requirement" available on the Department's website or upon request.

6. If a user cannot comply with the deadlines in item 1 above, the Department may grant an extension of time. The Department will consider requests for extensions on a case-by-case basis. Requests for extension must be made to the Department in writing. A water right holder may request an extension because of non-use. Non-use may be required by a federal land set aside program, or the water user may be temporarily not diverting as authorized by the water right.

7. In some situations, the Department may exempt a diversion from the measurement requirements of this order. Conditions that may result in an exemption include, but may not be limited to, the following:
• Abandonment, non-use, or consolidation of diversions that results in a
diversion being unused and expected to remain unused for the foreseeable
future; or

• A reduction or change to the water right that results in an authorized
diversion rate less than or equal to 0.24 cfs and/or reduces the authorized
irrigation use to five acres or less; or

• A demonstration by the holder of a ground water right authorizing
irrigation of more than five acres and less than or equal to ten acres that
the actual number of irrigated acres is five acres or less.

8. The requirements of this order apply to new ground water diversions authorized after
the date of this order, except those ground water uses or diversions identified in items 1a. through
1c. of this section. This order does not require the installation of lockable controlling works,
although nothing in this order shall preclude the Director and/or the watermaster from mandating
the installation of lockable controlling works on any diversion if such works are determined to be
necessary for adequate administration and control of the diversion.

9. The watermaster shall shut off and refuse to deliver water to any ground water user
who does not have, or who fails to maintain, an adequate measuring device on a diversion after the
start of the 2019 irrigation season (irrigation diversions) or after January 1, 2019 (non-irrigation
diversions), unless an extension or exemption has been granted by the Department.

10. The watermaster shall be responsible for the collection and annual reporting of all
measurement data for the diversions within water district boundaries subject to this order. All
diversions shall be reported to the Department using the Department’s WMIS online database
application.

Dated this 23rd day of September 2016

MAT WEAVER
Deputy Director
CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 23rd day of September 2016, the above and foregoing document was served on each individual or entity on the service list for this matter on file at the Idaho Department of Water Resources, 322 East Front Street, Boise, Idaho and www.idwr.idaho.gov. Each individual or entity on the service list was served by placing a copy of the above and foregoing document in the United States mail, postage prepaid and properly addressed.

Documents served: Preliminary Order in the Matter of Requiring Measuring Devices for Ground Water Diversions in Water District No. 161 (Mountain Home Area)

Sarah Shaul
Technical Records Specialist
Idaho Department of Water Resources
EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER
(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

**PETITION FOR RECONSIDERATION**

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

**EXCEPTIONS AND BRIEFS**

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

**REQUEST FOR HEARING**

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

**ORAL ARGUMENT**

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.
CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

(a) The petition for reconsideration is disposed of; or
(b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.
The source and means of diversion of water, whether surface or ground water, generally affects the selection of a measuring device. Surface water sources such as streams, springs and waste channels are normally diverted into open channels (ditches or canals), but closed conduits (pipes or culverts) are also used. Ground water is usually diverted into closed conduits which convey water from the well to system discharge points such as irrigation sprinkler systems. Ground water may also discharge from a well and short section of pipe to open channels or ditches.

Measuring devices, when required by IDWR, are to be installed at or near the point of diversion from the public water source.

I. MEASUREMENTS IN OPEN CHANNELS

The following discussion is applicable only to diversions from surface water sources. Measurement of a ground water diversion with an open channel measuring device must be pre-approved by IDWR.

A. Standard Open Channel Measuring Devices

All open channel surface water diversions should be measured using one of the following standard open channel flow measuring devices commonly used in Idaho:

- **Weirs**: contracted or suppressed rectangular weirs, Cipolletti weir, 90 degree V-notch weir
- **Submerged Orifices**: submerged rectangular orifice, constant head orifice
- **Flumes**: Parshall flume, trapezoidal flume, ramped flume (ramped, broad-crested weir)
- **Acoustic**: acoustic Doppler flow meter (ADFM), acoustic Doppler current profiler

The installed flow rate accuracy of open channel measurement devices must be +/- 10.0% as compared to an acceptable open channel current meter or other standard portable measuring devices such as an acoustic Doppler flow meter or acoustic Doppler current profiler.

Construction, installation and operation of these devices should follow published guidelines, such as those published by the United States Bureau of Reclamation.

B. Non-standard open channel devices: Rated Structures or Rated Sections

Any weir, flume, or other measuring device that has not been constructed, installed, or maintained correctly and therefore does not measure flow in the standard manner consistent with standard rating tables or curves is considered to be a non-standard device. IDWR may authorize the use of non-standard devices and rated sections provided the device or section is rated or calibrated against a set of flow measurements using an acceptable open channel current meter or standard portable open channel measuring device. Examples of standard portable open channel measuring devices include the acoustic Doppler flow meter, the acoustic Doppler current profiler, or a portable flume. These devices are acceptable provided they are installed and operated according to all relevant manufacturer recommendations.

Further information and requirements are available from IDWR upon request.

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II. CLOSED CONDUIT MEASURING DEVICES

The following discussion is applicable to measurement of diversions from any water source that diverts via a full-flowing, closed conduit.

A. Standard Closed Conduit Measuring Devices

Standard closed conduit measuring devices are flow meters that have been “certified” or approved for use by IDWR based on independent third party testing. IDWR has published a list of meters that have passed testing and are certified for use. Tests were conducted for both accuracy and repeatability on all submitted models, and a pass/fail rating awarded. The IDWR List of Approved Closed Conduit Flow Meters (“Approved Flow Meters List”) may be found at:


Certified meters must be installed with minimum straight pipe length requirements as specified in the Approved Flow Meters List. Owners or operators who install a certified meter without the minimum straight length spacing requirements, or otherwise inconsistent with manufacturer’s specifications, may need to provide an adequate testing section of straight pipe located somewhere on the diversion system either upstream or downstream of the installed flow meter. This testing section can be excavated pipeline as long as the section of pipe carries all water being measured through the installed flow meter. Water users choosing to expose pipe will be required to excavate the pipe at their expense at the request of the district hydrographer, watermaster and/or IDWR staff.

B. Non-standard Closed Conduit Measuring Devices: Requests for Variance

In some cases, site conditions preclude use of a certified meter, and another meter or method of measurement may produce similarly accurate results. In cases where the user can show that a proposed alternative meter or method would be as accurate as, or otherwise is better suited to an application than any of the meters on the approved list, a user can propose using an alternative meter or method by submitting a Request for Variance Form, available from IDWR.

If a request is submitted and granted, the water user bears the risk that the alternative meter or method will perform as expected.

The following alternate measurement methods may be considered:

- Development of a Power Consumption Coefficient (PCC), which is a ratio of power usage to water withdrawal. Acceptance of the PCC method may be provided for qualifying irrigation diversions only;
- Use of an hour meter (time clock) for qualifying diversions only;
- Use of an acceptable flow meter that was installed prior to the date of the measurement order;

If a meter is already installed, that meter may be used if the meter is field-tested by IDWR staff, the water district watermaster, or a district hydrographer using a portable standard flow meter and upon a determination that the meter is installed properly and accurate to within ±10% of the rate of flow and volume as measured with a portable standard flow meter. If a non-certified meter is approved and installed but does not pass a field check, IDWR may require the water user to replace the meter with a certified meter at the water user’s expense.

If an alternative method is approved and that method is later found to be insufficient, the variance will be withdrawn and a certified meter will be required to be installed. The suitability of any pumping station for an hour meter or the PCC method of measurement will be based on criteria found in this document, an applicable IDWR water measurement order, and criteria found in the document entitled IDWR ESPA Water Measurement and Reporting Guidelines.

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2 Testing was conducted at the Utah Water Research Laboratory (UWRL), a National Institute of Standards and Technology (NIST) traceable lab in Logan, Utah.

3 This document can be found at: https://idwr.idaho.gov/files/water-measurement/IDWR-Water-Measurement-Reporting-Guidelines.pdf
Idaho Department of Water Resources
List of Approved Closed Conduit Flow Meters

The tables below list flow meters that have been independently tested and subsequently approved by the Idaho Department of Water Resources (IDWR) for use in closed conduit measurement applications. The approved flow meters were tested by the Utah Water Research Laboratory at Utah State University using NIST\(^1\) traceable instrumentation and subject to IDWR testing standards. Meters on this list performed at or above the IDWR minimum acceptable standards for accuracy when installed in long-run and short-coupled pipe configurations specified by IDWR. Please note that the approved meter list is model specific, not manufacturer specific. Prior to selecting and purchasing a meter, consult the manufacturer's installation requirements to ensure that all installation specifications for the specific model can be achieved. The list below is subject to change as additional meters are added or removed. This is the most current list and can be found on the IDWR website at the following URL:


**Straight Pipe Length** - The minimum length of unobstructed pipe free of flow disturbers, immediately above and below the meter sensors, spool, or flow tube.

**Flow Disturber** - Any fitting or irregularity in the piping above or below the measuring device sensor location that affects flow patterns through the device or sensor location. Disturbers may include but are not limited to: pump discharges, elbows, check or chemigation valves, butterfly or gate valves, pipe reducers.

**IDWR Installation Requirements:**

*Approved full profile magnetic flow meters and spooled ultrasonic flow meters* must be installed with a *minimum straight pipe length equivalent of three (3) pipe diameters upstream and two (2) pipe diameters downstream from the center of the meter spool.*

*Approved clamp-on and wetted ultrasonic flow meter transducers* must be located with a *minimum straight pipe equivalent of ten (10) pipe diameters upstream and five (5) pipe diameters downstream of the nearest transducer.* Manufacturer specifications for upstream and downstream straight pipe requirements may be greater or less than the IDWR requirements. *All other manufacturer installation specifications must be met.*

\(^1\) NIST - National Institute of Standards and Technology.
**Approved Full Profile Magnetic Flow Meters***

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model/Specifications</th>
<th>Power Supply</th>
<th>IDWR-accepted Pipe Applications (Nominal Pipe Size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endress+Hauser</td>
<td>ProMag L400 (L sensor with 400 transmitter)</td>
<td>AC</td>
<td>1” - 90”</td>
</tr>
<tr>
<td>Endress+Hauser</td>
<td>ProMag W400 (W sensor with 400 transmitter)</td>
<td>AC</td>
<td>2” - 78”</td>
</tr>
<tr>
<td>Siemens</td>
<td>SITRANS FM MAGFLO MAG 5100W w/ 5000 converter</td>
<td>AC</td>
<td>1” to 78”</td>
</tr>
<tr>
<td>Siemens</td>
<td>SITRANS FM, MAGFLO 8000, model 7ME6880</td>
<td>DC</td>
<td>1” to 48”</td>
</tr>
<tr>
<td>McCrometer</td>
<td>Ultra Mag w/ M-Series Converter</td>
<td>AC</td>
<td>2” to 48”</td>
</tr>
<tr>
<td>Badger</td>
<td>M2000 Amplifier w/ M2000 Detector</td>
<td>AC</td>
<td>1/4” to 54”</td>
</tr>
<tr>
<td>Khrone</td>
<td>Enviromag 2000 w/ Optiflux 2000 F/G</td>
<td>AC</td>
<td>3/8” to 80”</td>
</tr>
<tr>
<td>Khrone</td>
<td>Waterflux 3100C/F</td>
<td>AC</td>
<td>1” to 24”</td>
</tr>
<tr>
<td>Rosemount</td>
<td>8705 w/ 8732E transmitter</td>
<td>AC</td>
<td>1/2” to 36”</td>
</tr>
<tr>
<td>Burkert</td>
<td>8054/8055 w/ Magflow transmitter</td>
<td>AC</td>
<td>1” to 80”</td>
</tr>
<tr>
<td>Seametrics†</td>
<td>AG 2000†</td>
<td>DC†</td>
<td>4” to 10”</td>
</tr>
<tr>
<td>Seametrics†</td>
<td>AG 3000†</td>
<td>DC†</td>
<td>4” to 12”</td>
</tr>
<tr>
<td>Seametrics†</td>
<td>iMag 4700†</td>
<td>DC†</td>
<td>4” to 12”</td>
</tr>
<tr>
<td>Sparling</td>
<td>Tiger Mag W/FM6561051110 Converter</td>
<td>AC</td>
<td>3/8” to 48”</td>
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<tr>
<td>Sensus</td>
<td>IPeRl</td>
<td>DC</td>
<td>5/8”-1”</td>
</tr>
<tr>
<td>Growsmart by Lindsay</td>
<td>IM3000</td>
<td>DC</td>
<td>2”-12”</td>
</tr>
<tr>
<td>ABB</td>
<td>WaterMaster</td>
<td>AC</td>
<td>3/8” to 96”</td>
</tr>
<tr>
<td>ABB</td>
<td>AquaMaster 3 with FER series transmitter</td>
<td>DC</td>
<td>½” to 24”</td>
</tr>
</tbody>
</table>

*Installations of all approved full profile magnetic flow meters require a minimum straight pipe length of 3 pipe diameters upstream and 2 pipe diameters downstream from the center of the meter spool.  † Seametrics AG2000, AG3000 and iMag must be installed with AC power supply and a working battery must remain in the unit.
### Approved Spooled Ultrasonic Flow Meters*

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model/Specifications</th>
<th>Power Supply</th>
<th>IDWR-accepted Pipe Applications (Nominal Pipe Size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Meter</td>
<td>Octave</td>
<td>DC</td>
<td>2”-10”</td>
</tr>
<tr>
<td>Badger</td>
<td>E-Series</td>
<td>DC</td>
<td>3/4”-2”</td>
</tr>
<tr>
<td>Netafim</td>
<td>Octave</td>
<td>DC</td>
<td>2”-12”</td>
</tr>
</tbody>
</table>

*Installation of approved spooled ultrasonic flow meters require a minimum straight pipe length of 3 pipe diameters upstream and 2 pipe diameters downstream from the center of the meter spool.

### Approved Clamp-on and Wetted Transducer Ultrasonic Flow Meters*

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Model/Specifications</th>
<th>Power Supply</th>
<th>IDWR-accepted Pipe Applications (Nominal Pipe Size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siemens</td>
<td>CLAMP-ON ULTRASONIC -SITRANS FUS 1010 w/ HIGH PRECISION TRANSDUCERS</td>
<td>AC</td>
<td>14”+</td>
</tr>
<tr>
<td>Fuji</td>
<td>Time Delta C w/ 1MHz transducers</td>
<td>AC</td>
<td>14”+</td>
</tr>
<tr>
<td>GE Panametrics</td>
<td>AT868 w/ 1MHz transducers</td>
<td>AC</td>
<td>14”+</td>
</tr>
</tbody>
</table>

* Ultrasonic flow meter transducers must be located with a minimum straight pipe equivalent of ten (10) pipe diameters upstream and five (5) pipe diameters downstream of the nearest transducer.

**The meters on the table above may not be used on pipe smaller than 14 inches unless a variance is approved by IDWR.
BEAUCHAMP, CHRISTIAN; BEAUCHAMP, STEPHANIE
5393 NE WATERDOG WAY
MOUNTAIN HOME ID 83647

BELL, JESSIE
2950 N 24TH E
MOUNTAIN HOME ID 83647

BECKER, LEONARD E; BECKER, MERLA L
825 AGUIRRE RD
RT 1 BOX 825
MOUNTAIN HOME ID 83467-9722

DONNA L BELL TRUST
RALPH ROBERT TOWLE TRUSTEE
2405 WYOMING
BOISE ID 83706

BEN FATTO LTD PARTNERSHIP; CARDON HIATT
INVESTMENTS LLC; FAR MAREL LLC; SMT INVESTORS
LTD PARTNERSHIP; VIEL GLUCK LLP
1223 S CLEARVIEW AVE STE 103
MESA AZ 85209

BENNETT MOUNTAIN NO 1 WATER USERS
1020 SCHMOLL RD
MOUNTAIN HOME ID 83647

BERANNA DAIRY
9166 PERCH RD
CALDWELL ID 83607

BERMENSOLO, JOHN D
1510 N 3RD E ST
MOUNTAIN HOME ID 83647

BLACK, PENNY
325 SW HAMILTON RD
MOUNTAIN HOME ID 83647

BOWEN, BLAINE E
1170 NE CATTLE DR
MOUNTAIN HOME ID 83647

BOWEN, BRADLEY; BOWEN, TIFFANY
6117 S 18TH EAST
MOUNTAIN HOME ID 83647

BOWEN, BRADLEY; BOWEN, TIFFANY
6117 S 18TH EAST
MOUNTAIN HOME ID 83647

BOWEN, BRADLEY; BOWEN, TIFFANY
6117 S 18TH EAST
MOUNTAIN HOME ID 83647

BRAGGA, CHARLES E; BRAGGA, SUZANN
7014 ROSEWOOD DR
MOUNTAIN HOME ID 83647

BRIGGS, BECKY A; BRIGGS, JAMES L
PO BOX 46
MOUNTAIN HOME ID 83647

BRIGGS, BECKY A; BRIGGS, JAMES L
PO BOX 46
MOUNTAIN HOME ID 83647

BRLETIC, MICHAEL; BRLETIC, NANCY
4985 N 18TH E
MOUNTAIN HOME ID 83647

BROCK, PATRICIA A; BROCK, TERRY N
435 NW FOSTER DR
MOUNTAIN HOME ID 83647-5792

BROOKS, PAUL T
350 N MILWAUKEE #2084
BOISE ID 83704

BROWN, ROBERT C; BROWN, SHERYL A
2062 NE RODGERS LN
MOUNTAIN HOME ID 83647

BROWN FARMS LLC
764 N TROUTNER WAY
BOISE ID 83712

BUTTERFIELD, CHARLES; BUTTERFIELD, HELEN
860 S 32 W
MOUNTAIN HOME ID 83641

Caldwell, John W
PO BOX 51
MOUNTAIN HOME ID 83647
CORBUS, BUD; CORBUS, EDIE
PO BOX 234
MOUNTAIN HOME ID 83647

CORBUS, WANDA L
RR 2 BOX 459
MOUNTAIN HOME ID 83647

CORBUS, BUD; CORBUS, EDIE
RT 2 BOX 460
MOUNTAIN HOME ID 83647

COX, MARGARET J; HICE, HAROLD R
3980 W HARBOR POINT DR
MERIDIAN ID 83646

CRAIN, DARYEL D; CRAIN, JUDY M
PO BOX 745
MOUNTAIN HOME ID 83647

CRATER HOLDING TRUST
PLEASANT ACRES TRAILER COURT
PO BOX 333
EAGLE ID 83616

CRINER, CLYDEAN F; CRINER, PORTER W
DANIELS RD
RT 1 BOX 879
MOUNTAIN HOME ID 83647

CROMAR, J ROBERT; CROMAR, MARILYN D
PO BOX 939
MOUNTAIN HOME ID 83647

CROSSLEY, DENNIS DAN; CROSSLEY, KAREN M
2170 N E BELL COUNTRY CT
MOUNTAIN HOME ID 83647

CRUSER, PATRICK; CRUSER, SALLY
1370 OWYHEE DR
MOUNTAIN HOME ID 83647

CRUSER, MICHAEL F; CRUSER, NICHOLE C
2185 NE BELL COUNTRY CT
MOUNTAIN HOME ID 83647

CURRY, TRACI M
1635 S 18TH W
MOUNTAIN HOME ID 83647

DANSKIN PROPERTIES ASSN INC
C/O BARBARA WAITE - PRES
315 E DANSKIN DR
BOISE ID 83716

DECRESCEONZO, GREGORY; SHAKOORI, ASFAR A;
SHAKOORI, MIRAZIM; SHAKOORI, ALI
4313 MANSFIELD DR
DANVILLE CA 94506

DENNING, LADEAN F
8240 W MARTHA AVE
MOUNTAIN HOME ID 83647

DESBIEEN, RICH
810 NE BEAMAN ST
MOUNTAIN HOME ID 83647-5299

DILLINGHAM, LINA J
PO BOX 961
GLENNS FERRY ID 83623

DODGE, MARY; DODGE, RON
170 S 13TH E
MOUNTAIN HOME ID 83647

DODDERY, JACK R; DOHERTY, JOHN R
228 MARGARITA DR
SAN RAFAEL CA 94901

DOMINGUEZ, ALICIA; DOMINGUEZ, MOISES
5554 SE HARVEST CIR
MOUNTAIN HOME ID 83647
HILL, KEVIN; KELL, BROCK; MC CASLIN, JAMES
2450 SUNSET STRIP
MOUNTAIN HOME ID 83647

HODGE, DAVID L; HODGE, JANE L
RT 1 BOX 672
MOUNTAIN HOME ID 83647

HOFEY, ALBERT JOHN; HOFEY, VICTOR ALBERT
1155 S 5TH W
MOUNTAIN HOME ID 83647

HOGER, JULIE A
51 SW SUNSET DR
MOUNTAIN HOME ID 83647

HOFER, ALBERT JOHN; HOFER, VICTOR ALBERT;
HOFER, JULIE A
51 SW SUNSET DR
MOUNTAIN HOME ID 83647

HOLDEN, RICKI
C/O BRAD BOWEN
6117 S 18TH E
MOUNTAIN HOME ID 85647

HOGAN, WILLIAM P
1640 S 5TH W
MOUNTAIN HOME ID 83647

HUFF, CYNTHIA L
5369 NW TENNANT AVE
MOUNTAIN HOME ID 83647

HOPSON & HOPSON
305 NE MASHBURN RD
MOUNTAIN HOME ID 83647-5287

HUFF, CYNTHIA L
5369 NW TENNANT AVE
MOUNTAIN HOME ID 83647

HUNT, CAROLYN E; HUNT, RAY
9698 E HWY 20
MOUNTAIN HOME ID 83647-5314

HUNT, CAROLYN E; HUNT, RAY
ROCKY BAR STAGE
MOUNTAIN HOME ID 83647

IDAHO FARMWAY INC
C/O DAN WEITZ
PO BOX 854
BAKER CITY OR 97814

IDAHO POWER CO
C/O JON BOWLING
PO BOX 70
BOISE ID 83707

IDAHO WASTE SYSTEMS INC
PO BOX 1386
MOUNTAIN HOME ID 83647

IDAHO WATER CO LLC
C/O DEL KOHTZ
1135 VALLEY RD S
EDEN ID 83325

INTERMOUNTAIN SEWER & WATER CORP
PO BOX 344
MERIDIAN ID 83680

IRELAND RANCHES
153 NE AKE DR
MOUNTAIN HOME ID 83647

J R SIMPLOT CO
C/O DAVID SPURLING
999 MAIN ST STE 1300
BOISE ID 83707

J R SIMPLOT CO
C/O DAVID SPURLING
999 MAIN ST STE 1300
BOISE ID 83707

J R SIMPLOT SELF DECLARATION REVOCABLE TRUST
PO BOX 27
BOISE ID 83707-0027

JAUSORO, GOISALDE O; JAUSORO, JEFF S
3637 N 18 E
MOUNTAIN HOME ID 83647
<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
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<tbody>
<tr>
<td>LEE, DEBBIE; LEE, TROY S; THE LEE FAMILY TRUST</td>
<td>C/O MAURICE D &amp; SONYA E LEE 4135 SW LEE LN</td>
<td>MOUNTAIN HOME ID 83647</td>
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<tr>
<td>LEWIS, KATHRYN J; LEWIS, RANDALL J</td>
<td>3655 N 18TH E</td>
<td>MOUNTAIN HOME ID 83647</td>
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<tr>
<td>LIERCKE, KRISTY J; LIERCKE, RONALD R</td>
<td>1345 E 5TH NORTH ST</td>
<td>MOUNTAIN HOME ID 83647</td>
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<td>LIGGETT, HERBERT</td>
<td>RT 3 BOX 652C</td>
<td>MOUNTAIN HOME ID 83647</td>
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<tr>
<td>LISH, ALENE</td>
<td>4630 122ND PL NE MARYSVILLE WA 98271-8545</td>
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<td>LOOSLI, RICHARD; LOOSLI, TAMMY</td>
<td>3605 TICONDEROGA WAY BOISE ID 83706</td>
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<tr>
<td>LORD, LINDA D; LORD, PRESTON E</td>
<td>9320 HWY 20 MOUNTAIN HOME ID 83647</td>
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<td>LORD RANCH LLP</td>
<td>1171 MAYFIELD RD BOISE ID 83716-3401</td>
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<td>LOTT, HELEN</td>
<td>RT 1 BOX 654 MOUNTAIN HOME ID 83647</td>
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<td>LUND, DON</td>
<td>577 NW DATE AVE MOUNTAIN HOME ID 83647-5805</td>
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<tr>
<td>MACK, DIANE R; MACK, EDWARD P</td>
<td>445 S 10TH E ST MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MARTIN, MICHAEL D; MARTIN, SUSAN L</td>
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<tr>
<td>MARY PARKER WATER ASSN C/O GEORGE WILDER 13485 PARKER LN MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MAYNE, DOUGLAS B; MAYNE, JUDITH C</td>
<td>1520 W 42ND S MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MC CALL, DONALD E; MC CALL, REBECCA A</td>
<td>376 NW BEAMAN RD MOUNTAIN HOME ID 83647</td>
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<tr>
<td>HILL, KEVIN; KELL, BROCK; MC CASLIN, JAMES</td>
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<tr>
<td>MC EACHREN, JANET</td>
<td>1430 S 3RD W A ST MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MC MAHON JR, RICHARD T; MC MAHON, CHARLOTTE</td>
<td>RT 2 BOX 703 MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MC MAHON JR, RICHARD T; MC MAHON, CHARLOTTE</td>
<td>40 NE AULBACH DR MOUNTAIN HOME ID 83647</td>
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<tr>
<td>MCFARLAND, DON; MCFARLAND, CAROL</td>
<td>PO BOX 5178 TWIN FALLS ID 83303</td>
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</tbody>
</table>
OBLINSKY, BOBBIE JO; OBLINSKY, THOMAS
5491 NE WATERDOG WAY
MOUNTAIN HOME ID 83647

HAGEN, HEATHER M; OLSON, KARL H
1030 E 13TH N
MOUNTAIN HOME ID 83647

HAGEN, HEATHER M; OLSON, KARL H
12285 E HWY 20
MOUNTAIN HOME ID 83647-5317

OLSON, CHARLES J; OLSON, DAVID A; OLSON, DORIS J
8813 OLD HWY 30
MOUNTAIN HOME ID 83647

OLSON, CHARLES J; OLSON, DAVID A; OLSON, DORIS J
2945 SE OLSON FARMS LN
MOUNTAIN HOME ID 83647

EDWARD & DRUSILLA OPPEDYK FAMILY TRUST
C/O EDWARD & DRUSILLA OPPEDYK
PO BOX 399
MOUNTAIN HOME ID 83647

OSTBERG, CHRISTINE; OSTBERG, RANDY
PO BOX 702
HELENDALE CA 92342-0702

PACIFIC HIDE & FUR DEPOT
1401 THIRD ST NW
GREAT FALLS MT 59404

PAGE, DARYL L; PAGE, TAUNYA L
4891 N 18TH E
MOUNTAIN HOME ID 83647

PAYNE, JACKIE; PAYNE, ROBERT
2883 NW PAYNE DR
MOUNTAIN HOME ID 83647-5751

PEHRSON, TRAVIS; PEHRSON, MICHELLE
3535 N 18TH EAST ST
MOUNTAIN HOME ID 83647

PENTICO, PAO-CHU
120 CARRIE DR
MOUNTAIN HOME ID 83647

PERCY, HELEN S; PERCY, STEPHEN H
PO BOX 248
MOUNTAIN HOME ID 83647-0248

PEREZ, JAMIE R; PEREZ, TIMMERY L
1901 S TEN MILE RD
KUNA ID 83634

PETERMAN, JEROME E; PETERMAN, RUTH;
PETERMAN, TERRELL K; PETERMAN, TRESA C
HC 85 BOX 19K
MOUNTAIN HOME ID 83647

PETERSON, BARRY J; PETERSON, PHYLLIS M
A TO Z LUMBER & HARDWARE INC
999 AIRBASE RD
MOUNTAIN HOME ID 83647

PITCHFORK RANCH LLC
C/O GREGORY VIK
PO BOX 1607
BELLEVUE WA 98009

PRINDLE, CHERYL; PRINDLE, ROB
PRINDLE AND REID HOA
11650 NW TOUCH N GO AVE
BOISE ID 83716
RAINEY, GRACE E; RAINEY, NED E
1465 E 8TH N
MOUNTAIN HOME ID 83647

READE, JENNIFER; READE, KEVIN
PO BOX 170123
BOISE ID 83717

REYNOLDS, JASON M; REYNOLDS, RACHEL L
PO BOX 1444
MOUNTAIN HOME ID 83647

RHEUBY, DOUGLAS E; RHEUBY, GAIL B
1860 S 18TH E
MOUNTAIN HOME ID 83647

ROBERTS, ALAN D; ROBERTS, SUE L
205 S 14TH E
MOUNTAIN HOME ID 83647

ROSSOW, CLEO; ROSSOW, MELVIN L
RT 2 BOX 708
MOUNTAIN HOME ID 83647

RUFFING, JOHN L; RUFFING, RACHELLE O
5850 S 18TH E
MOUNTAIN HOME ID 83647

SAGEBRUSH SHUFFLERS
PO BOX 56
MOUNTAIN HOME ID 83647

SARINAS, BERNARD
4088 BIG BUCK TRAIL
CRESTVIEW FL 32539

SCHAEFER, TODD
4720 EMERALD STE 116
BOISE ID 83706

SAWTOOTH ESTATES WATER USERS ASSN
PO BOX 832
MOUNTAIN HOME ID 83647

ROBERSON, FORREST J
4558 NE LOTT RD
MOUNTAIN HOME ID 83647-5294

ROBERTSON, WILLIAM C; THOMAS JR, CONRAD E;
THOMAS, JEREMY A; T R INVESTMENTS
PO BOX 5
HAMMETT ID 83627

ROSE GARDEN MOBILE PARK
C/O MC CLELLAND CAPITOL LLC
15906 N E 13TH CIRCLE
VANCOUVER WA 98684

RUEGER, SUSAN LYNNE; RUEGER, WALTER EUGENE
905 N 14TH E
MOUNTAIN HOME ID 83647

RYMAN, CYNTHIA S
PO BOX 83
MOUNTAIN HOME ID 83647-0083

RAMSEY, LINDA M; RAMSEY, RANDY M
PO BOX 206
MOUNTAIN HOME ID 83647

REDFORD, GWEN E; REDFORD, HENRY J
4550 N 24TH E
MOUNTAIN HOME ID 83647

REYNOLDS, JASON M; REYNOLDS, RACHEL L
PO BOX 613
MOUNTAIN HOME ID 83647
STEELSMITH, CAROL S; STEELSMITH, JAMES K
625 BEAMAN RD
MOUNTAIN HOME ID 83647

STEPHENS, MONTE P; STEPHENS, TRACY J
12005 AIRBASE RD
MOUNTAIN HOME ID 83647

STEPHENS, SHANE; STEPHENS, KRISTIN
4409 N 18TH E
MOUNTAIN HOME ID 83647

STEVENS, DONALD D
1630 NE BEAMAN ST
MOUNTAIN HOME ID 83647-5469

STONE, EARL R; STONE, MARY A
275 S 5TH E
MOUNTAIN HOME ID 83647

SUKUP, MARK
5790 N 18TH E ST
MOUNTAIN HOME ID 83647

DAVIS, NARDA P; SULLIVAN, JOHN
3211 N 18TH E
MOUNTAIN HOME ID 83647

SUMMERWIND ESTATES WATER USERS ASSN INC
1659 NE SUMMERWIND DR
MOUNTAIN HOME ID 83647-5476

SUNCREST PROPERTIES LLC
5295 HIDDEN SPRINGS DR
BOISE ID 83714

SUNRISE PARK INC
5 COUNTRY PL W
BRENHAM TX 77833

SUNVIEW DAIRY LLC
6600 SW BLANKSMA RD
MOUNTAIN HOME ID 83647

SWAILS, JOSEPH
RT 1 BOX 839
MOUNTAIN HOME ID 83647

TAYLOR, ELIZABETH G; TAYLOR, JOHN A; TAYLOR, JOHN
TAYLOR, PATRICIA C
2115 DEBORA KAY LN
HACIENDA HEIGHTS CA 91745

TAYLOR, ELIZABETH G; TAYLOR, JOHN A; TAYLOR, JOHN
TAYLOR, PATRICIA C
915 S 3RD W ST
MOUNTAIN HOME ID 83647

TFCR WATER USERS ASSOC
LE OLIVER
RT 2 BOX 494
MOUNTAIN HOME ID 83647

TINDALL, JAMES D; TINDALL, JESSIE MAY
875 S 3RD W B ST
MOUNTAIN HOME ID 83647

TINGLE, EVANGELINE; TINGLE, WALTER B
5458 NW TENNANT AVE
MOUNTAIN HOME ID 83647-5185

TISKW, JAMES L
RT 1 BOX 824
MOUNTAIN HOME ID 83647

TODD, PATRICIA A; TODD, WARREN M
1015 HWY 51
MOUNTAIN HOME ID 83647

TOWERS, RAY
4677 NE SUMMERWIND DR
MOUNTAIN HOME ID 83647

TOWN & COUNTRY WATER USERS ASSN
3836 NW DUTTON WAY
MOUNTAIN HOME ID 83647-5678
WORTHAM, LINDA I; WORTHAM, ROBERT E
PO BOX 511
MOUNTAIN HOME ID 83647

ZACHRY, GLORIA G; ZACHRY, WILLIAM H
125 BRADFORD ST
MOUNTAIN HOME ID 83647