



State of Idaho

**DEPARTMENT OF WATER RESOURCES**

322 East Front Street, P.O. Box 83720, Boise, ID 83720-0098

Phone: (208) 287-4800 Fax: (208) 287-6700 Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

JAMES E. RISCH  
Governor

KARL J. DREHER  
Director

February 20, 2007

**Re: Order Requiring Measuring Devices and Head gates in Water District 170**

Dear Water User,

The Idaho Department of Water Resources (IDWR or Department) has issued the enclosed preliminary order requiring installation of measuring devices and control works for diversions of ground water and surface water in the Department's Administrative Basin 71 prior to the 2008 irrigation season, and prior to the 2009 irrigation season for diversions in Administrative Basin 72. Pursuant to Section 67-5243, Idaho Code, the preliminary order will become a final order without further action of the Department unless a party petitions for reconsideration or files an exception and/or brief as explained in the enclosed information sheet.

This order requires users in Basin 71 to submit plans for measuring devices and control works to the Department on or before June 1, 2007 and those in Basin 72 on or before December 31, 2007. The separate compliance deadlines for the two basins is a reflection of the difference in the number of diversions in Basin 71 versus Basin 72, as well as the different levels of inventory work that have been completed to date. The staged compliance schedule will allow the Department and other agencies to interact with users in each basin to provide focused effort in an effective and orderly way. Note that additional time to comply with the order may be granted by the Department if circumstances beyond the user's control prevent the user from meeting the compliance deadline.

Installation of headgates and flow measuring devices on Federal land may require a special use permit or other authorization. The authorization may require specific design criteria to meet State and Federal requirements. Additionally, all structures associated with diversions within the Sawtooth National Recreation Area (SNRA) must meet scenic easement requirements and/or comply with other Federal regulations. If you have a diversion within the SNRA or on other Federal land, please contact your local Federal land management office for information on steps to obtain any necessary authorization prior to initiating any ground disturbing activity on Federal land.

Users that may not be able to meet the compliance deadline due to delays resulting from the requirements of other governing agencies should contact IDWR as soon as such a delay is identified and request a time extension. Users should begin corresponding with relevant agencies

as early as possible to minimize such delays (see Federal land contacts on the attached information sheet).


Please refer to the enclosed document "*Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices*" for information on types of measuring devices acceptable to IDWR. This document and other information on the topic is available on IDWR's Internet site at the following address:

[http://www.idwr.idaho.gov/water/districts/water\\_measurement.htm](http://www.idwr.idaho.gov/water/districts/water_measurement.htm)

Additionally, users are encouraged to attend a one-day workshop to be held by IDWR during the second week of March, 2007 (see the attached information sheet for details). The workshop will provide additional information on construction and design of control works and measuring devices and will be held in the Stanley or Challis areas.

If you have questions concerning this order, please contact the Watermaster for Water District 170, Nick Miller, at the IDWR State Office (208-287-4956), or contact the Deputy Watermaster, Bob Foster, at the IDWR Salmon Field Office (208-756-6644).

Respectfully,



Tim Luke  
Water Distribution Section

Enclosures:

*Preliminary Order Requiring Controlling Works and Measuring Devices in Water District 170*, Dated February 20, 2007 (27 pages)

Explanatory Information to Accompany a Preliminary Order (2 pages)

Information Sheet (2 pages)

*IDWR Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices* (6 pages)

Cc:

Nick Miller, Watermaster, Water District 170  
Bob Foster, Deputy Watermaster, Water District 170, IDWR, Salmon  
IDWR Southern Region

BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO

IN THE MATTER OF REQUIRING MEASURING	)	
	)	
DEVICES AND CONTROLLING WORKS ON	)	PRELIMINARY ORDER
	)	
DIVERSIONS FROM THE SALMON RIVER AND	)	
	)	
TRIBUTARIES IN WATER DISTRICT No. 170	)	
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On April 7, 2006, the Department sent an *Amended Final Order Creating Water District No. 170* to owners of all non de minimis water rights in Idaho Department of Water Resources (IDWR or Department) Administrative Basins 71 and 72.

A primary purpose of a water district is the administration of water rights within the water district by a water master. A water master administers water rights by reading measuring devices and adjusting head gates or other controlling works to deliver the authorized flowrate to the water right holder.

Paragraph five of the order creating Water District No. 170 stated the following:

The Director shall issue separate orders, as necessary, requiring the installation of measuring devices and lockable controlling works for diversions within Water District No. 170. Such orders will allow installations to be phased in over a period of one to two years from the date of issuance, thereby allowing a sufficient period of time in which to comply with such orders.

Section 42-701, Idaho Code, 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.

## **ORDER**

### **IT IS HEREBY ORDERED AS FOLLOWS:**

1. Holders of water rights in IDWR Administrative Basin 71 that divert from points of diversion identified in Attachment A of this order shall install on each point of diversion listed on Attachment A, a measuring device and lockable controlling works of a type acceptable to the Department. Unless the Department has granted an extension, deferral, or exemption, as

described in 1b and 1c below, the measuring devices and controlling works must be installed and functional prior to diverting water during the 2008 irrigation season.

1a. Points of diversion listed on Attachment A represent locations where the cumulative rate of diversion of the water rights exceeds 0.24 cfs, and/or the total number of acres irrigated exceeds five acres. Owners of water rights diverting from locations listed on Attachment A must submit plans to IDWR for measuring devices and controlling works for each point of diversion no later than June 1, 2007. Plans shall be reviewed by IDWR to determine whether proposed measuring devices and controlling works are of a type acceptable to the Department. If measuring devices and/or controlling works are already in place, a written description and diagram of the works shall be submitted to IDWR by June 1, 2007.

1b. If a user cannot comply with the deadline in item (1) above, the Department may grant an extension of time for the diversion to be brought into compliance. Requests for extensions must be received by the Department before January 1, 2008. Requests for extensions will be considered by the Department on a case-by-case basis.

1c. In some situations, the Department may exempt points of diversion on Attachment A from the requirements of item (1) above, or may allow deferred compliance for points of diversion on Attachment A. The Department will consider each request for exemption or deferral on a case-by-case basis. Conditions that may result in exemption or deferral include, but are not limited to, the following:

- Abandonment, non-use, or consolidation of diversions that results in a diversion on Attachment A being unused in 2008, or reduces the total diversion rate to less than 0.24 cfs and irrigation of less than five acres.
- Physical conditions, water usage or availability conditions, or any other condition that precludes meaningful water measurement.
- Delays caused by requirements of other government entities.

Requests for exemptions or deferrals must be received by the Department by June 1, 2007.

1d. The watermaster shall shut off and refuse to deliver water to any diversion for water rights on Attachment A that does not have an adequate measuring device and/or lockable

controlling works at any and all times following the start of the 2008 irrigation season, unless an extension, exemption, or deferral has been granted by IDWR.

2. Holders of water rights in IDWR Administrative Basin 72 that divert from points of diversion identified in Attachment B of this order shall install on each point of diversion listed on Attachment B, a measuring device and lockable controlling works of a type acceptable to the Department. Unless the Department has granted an extension, deferral, or exemption, as described in 2b and 2c below, the measuring devices and controlling works must be installed and functional prior to diverting water during the 2009 irrigation season.

2a. Points of diversion listed on Attachment B represent locations where the cumulative rate of diversion of the water rights exceeds 0.24 cfs, and/or the total number of acres irrigated exceeds five acres. Owners of water rights diverting from locations listed on Attachment B must submit plans to IDWR for measuring devices and controlling works for each point of diversion no later than June 1, 2008. Plans shall be reviewed by IDWR to determine whether proposed measuring devices and controlling works are of a type acceptable to the Department. If measuring devices and/or controlling works are already in place, a written description and diagram of the works shall be submitted to IDWR by June 1, 2008.

2b. If a user cannot comply with the deadline in item (2) above, the Department may grant an extension of time for the diversion to be brought into compliance. Requests for extensions must be received by the Department before January 1, 2009. Requests for extensions will be considered by the Department on a case-by-case basis.

2c. In some situations, the Department may exempt points of diversion on Attachment B from the requirements of item (2) above, or may allow deferred compliance for points of diversion on Attachment B. The Department will consider each request for exemption or deferral on a case-by-case basis. Conditions that may result in exemption or deferral include, but are not limited to, the following:


- Abandonment, non-use, or consolidation of diversions that results in a diversion on Attachment B being unused in 2009, or reduces the total diversion rate to less than 0.24 cfs and irrigation of less than five acres.

- Physical conditions, water usage or availability conditions, or any other condition that precludes meaningful water measurement.
- Delays caused by requirements of other government entities.

Requests for exemptions or deferrals must be received by the Department by June 1, 2008.

2d. The watermaster shall shut off and refuse to deliver water to any diversion for water rights on Attachment B that does not have an adequate measuring device and/or lockable controlling works at any and all times following the start of the 2009 irrigation season, unless an extension, exemption, or deferral has been granted by IDWR.

Dated this 20<sup>th</sup> day of February, 2007.

  
DAVID R. TUTHILL, JR., P.E.  
INTERIM DIRECTOR, IDWR

**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. 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 issuance 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.

# **Information Sheet**

This information sheet is intended to provide additional information for users affected by this order.

## **Diversions on Federal Lands:**

### **Diversions on United States Forest Service (USFS) Lands.**

Installation of headgates and flow measuring devices on USFS lands may require a special use permit or other authorization. Please contact the appropriate USFS office for further information prior to initiating any ground disturbing activity on USFS land. If your diversion is within the Sawtooth National Forest, please contact the Sawtooth National Recreation Area office at the number below.

### **Diversions in the Sawtooth National Recreation Area (SNRA).**

This includes all diversions within the SNRA, including those on private and those on public lands. All structures associated with diversions within the Sawtooth National Recreation Area must meet scenic easement requirements on lands on which the United States owns an easement. Private lands within the Sawtooth National Recreation Area that are not encumbered by a scenic easement must be in conformance with the Private Lands Regulations (36 CFR Part 292). Diversions within the SNRA on United States Forest Service lands must also comply with permitting requirements of the United States Forest Service. Prior to constructing or developing plans for headgates and measuring devices, users should contact the SNRA office and identify any special considerations or requirements of the SNRA.

### **Diversions on Bureau of Land Management (BLM) Lands.**

Water right owners with points of diversion on BLM lands should contact the agency and identify any special requirements prior to developing plans for headgates and measuring devices.

#### **SNRA Office**

HC 64, Box 8291  
5 North Fork Canyon Rd  
Ketchum, ID 83340  
208-727-5000

#### **Salmon-Challis Nat. Forest**

Forest Supervisor's Office  
1206 So. Challis Street  
Salmon, ID 83467  
(208) 756-5100

#### **BLM Challis Field Office**

Tim Vanek  
801 Blue Mountain Road  
Challis, Idaho 83226  
(208) 879-6200

## **Other Considerations:**

### **Ownership Change and Water Right Updates.**

IDWR recognizes that changes in water right ownership and points of diversion have occurred and are not always reflected in the IDWR records. Some of the diversion locations listed in this order may no longer be in use, or may have been moved or consolidated with other diversions. Water right ownership may not be up to date, and the points of diversion listed in this order may include unused diversions. If the water right ownership and/or point of diversion information listed in the order do not appear to be correct, please contact IDWR to correct the information.

### **IDWR Workshop.**

IDWR plans to hold a one-day workshop during the week of March 12, 2007. The workshop will focus on design and construction of control works and measuring devices. The workshop will also discuss other opportunities available to users to improve their water distribution systems and spread the cost of construction. These opportunities include: consolidating diversions, revising distribution systems, and participating in existing state and federal programs that may provide some funding to the user. IDWR will send notice of the workshop to water users when the time and location have been scheduled.

### **Fish Screens.**

Some of the diversions listed in this order may be scheduled to have a fish screen installed by the Idaho Department of Fish and Game (IDFG). Users should contact IDFG at the address below to ensure the plans for fish screens will not conflict with the user's plans for measuring devices and headgates. In some cases, up to 75% of the cost for installation of controlling works is provided with the installation of the fish screen. Additionally, users who are not already scheduled to have a fish screen installed should contact IDFG to determine if a fish screen might be required in the future.

**IDFG Screen Shop**  
97 HWY 93 North.  
P.O. Box 1336  
Salmon, ID 83467  
(208) 756-6022

**STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES (IDWR)**

**MINIMUM ACCEPTABLE STANDARDS FOR  
OPEN CHANNEL AND CLOSED CONDUIT  
MEASURING DEVICES**

The source and means of diversion of water, whether surface or ground water, generally determines the measurement and reporting process. 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 pipes (which may also discharge into open channels).

Measuring devices are required at or near the point of diversion from the public water source.

**OPEN CHANNEL**

**SURFACE WATER DIVERSIONS**

**I. Flow Measurement**

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 the Department.

**A. Standard Open Channel Measuring Devices**

Standard weirs, flumes and submerged orifices are pre-calibrated devices commonly used for measuring water in open channels. The installation of one of these devices provides a fixed relationship between the stage and flow.

Various size weirs, flumes and submerged orifices are available and each type and size has a separate rating, or relationship between head and flow. Standard designs and information about installation and use of different measuring devices, including rating tables, can be provided by the department. All open channel flow diversions should be measured using one of the following standard open channel flow measuring devices commonly used in Idaho:

- contracted rectangular weir
- suppressed rectangular weir
- Cipolletti weir
- 90 degree V-notch weir
- Parshall flume
- trapezoidal flume
- submerged rectangular orifice
- constant head orifice
- ramped broad crested weir (or ramped flume)

Construction and installation of these devices should follow published guidelines. Additional information is available on the IDWR Internet site at the addresses below. Additional references are available upon request.

[http://www.idwr.idaho.gov/water/districts/water\\_measurement.htm](http://www.idwr.idaho.gov/water/districts/water_measurement.htm)

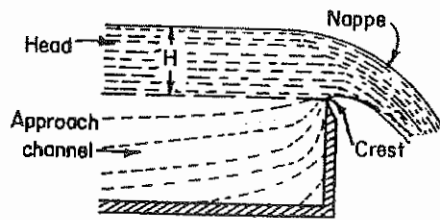


Figure 1. Generalized profile of a standard sharp-crested weir.

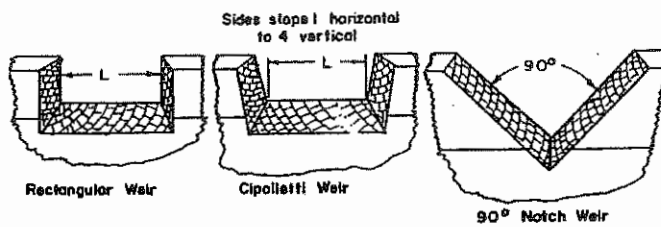


Figure 2. Examples of common weir types.

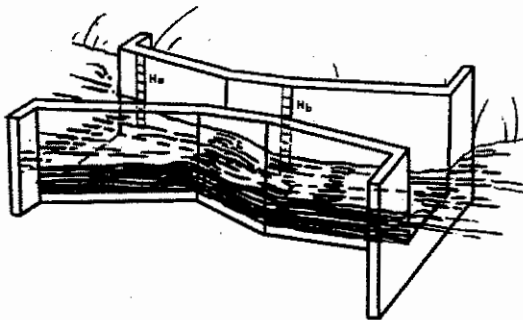


Figure 3. Parshall Flume.

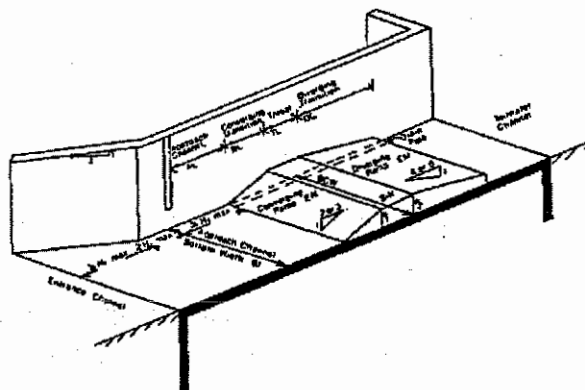


Figure 4. Ramped Flume.

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

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 a standard portable measuring device. Further restrictions and requirements are available from the Department upon request.

#### **C. Closed Conduit Measuring Devices**

Refer to the Ground Water measuring section for installation, accuracy, and calibration standards of closed conduit measuring devices.

### **GROUND WATER DIVERSIONS**

Ground water diverters have the option of installing a flowmeter, or using power records to estimate water withdrawals. Information regarding the use of power records will follow this discussion of flowmeters.

#### **I. Flow Measurement**

There are many flowmeters on the market, with costs ranging from several hundred dollars to several thousand dollars. In general, the higher priced meters are more accurate and require less maintenance. Most meters on the market have an acceptable accuracy rating for IDWR's guidelines. However, some types and designs are much more prone to maintenance problems. Moving parts tend to wear when sand or silt is present, and moss often plugs small orifices and slows moving parts. No single flowmeter is best for every situation. We recommend that you visit with qualified dealers and discuss your needs with them.

#### **A. Minimum Standards**

The following are minimum standards for closed conduit flowmeters:

- Minimum manufacturers' design accuracy of +/- 2 percent of reading
- Installed accuracy of at least +/- 10 percent of reading
- Meter must be calibrated with an independent, secondary measuring device when installed, and at least once every four years thereafter. In many cases, IDWR or the water district will perform this calibration.
- Must read instantaneous flow or be capable of flow rate calculation
- Must record total volume
- Non-volatile memory (power outage does not zero volume reading)
- Sufficient digits to assure "roll-over" to zero does not occur within 2 years
- Volume reading cannot be "reset" to zero
- Installed to manufacturers' specifications

Meter manufacturers typically specify that a meter must be located in a section of straight pipe at least 10 pipe diameters downstream and 5 pipe diameters upstream of any valves, bends, contractions, or other interferences which will distort the flow pattern. However, some types of meters will produce acceptable results when installed in shorter sections of

straight pipe. For example, at least one electro-magnetic flowmeter provides excellent measurement accuracy with only 5 lengths of straight pipe upstream from the meter.

Each manufacturer should provide the installation specifications for its meters. These **specifications must be adhered to** in order to achieve the accuracy required for the water measurement program. Again, we stress the importance of visiting with a qualified dealer and discussing your specific needs with them.

#### B. Types of Measuring Devices for Closed Conduits

Types	Pipe Sizes	Maintenance Required	Relative Purchase Price
Differential Head <ul style="list-style-type: none"> <li>• Orifice</li> <li>• Venturi</li> <li>• Annubar</li> </ul>	small to large	Low to high. Sand wears on sharp edges, and particles can plug small orifices and tubes.	low to medium
Force Velocity <ul style="list-style-type: none"> <li>• Turbine</li> <li>• Propeller</li> <li>• Impeller</li> </ul>	small to large	Typically moderate to high. Often problematic when exposed to sand or moss. Some cannot measure low velocities	low to medium
Ultrasonic	small to large	Low. Typically non-invasive with no moving parts to wear	high
Vortex	small to medium (about 12 to 14 inch maximum pipe diameter)	Low. Few or no moving parts to wear.	high
Electro-Magnetic	small to medium (about 12 to 14 inch maximum pipe diameter)	Low. No moving parts. Can provide good results with shorter lengths of straight pipe.	high

### **Power Records**

An alternative to installing flowmeters is the use of power records and other information to estimate the annual diversion from a pump. This method, which we call the Power Consumption Coefficient (PCC) method, utilizes information obtained from the pumping plant while running at or near full capacity. Two parameters are measured while the pump is operating: flow rate and input power. With this information, one can calculate the number of kilowatt-hours required to pump one acre foot of water. This number is unique to each well and pumping plant due to the physical attributes of the system.

To determine the rate of flow, a portable measuring device, such as an ultrasonic non-invasive meter or a differential head device, can be used. Simultaneous with the flow measurement, power is measured using the utility's kilowatt-hour meter. A qualified individual with the necessary equipment will be required to perform these measurements.

With the power consumption coefficient, an annual volume of water pumped can be calculated from the total annual kilowatt-hours of energy consumed by the pumping plant. The total power usage for each pumping plant will be supplied to the Department by electric utilities.

Some complex systems cannot use this method due to the potential for large errors. See the discussion on page 5 to see if this method can be used.

Because systems wear and water levels change, it is necessary to occasionally verify the flow to power ratio. Therefore, the power consumption coefficient must be re-calibrated at least once every four years.

### **Can power records be used to estimate my diversion?**

**Only irrigation water users may use power records** to estimate their diversion because the utilities will only provide consumption information for irrigation uses. If you are not an irrigation user, but want to use power records, you must propose a method of reporting your power consumption data.

Owners of **surface water diversions** must have a flow measuring device in most cases. The alternate method of estimating water withdrawals with power records cannot be used unless you pump from a public water source and can show the Department that it will yield reliable results (case by case determination).

Owners of **ground water diversions** can either install a totalizing flowmeter or ask the Department to use power records to estimate withdrawals. If the pump discharges to an open channel, an open channel measuring device can be employed to measure the water diverted if the device and a method of tracking hours of operation are pre-approved by the Department. Flow meters which register only instantaneous flow rate are not acceptable unless the water user can demonstrate a reliable method of tracking the number of hours the pump operates



through the season (the flow measuring device must then be read and flow rate recorded at least once per week).

Estimating total water diversion from power records requires the derivation of a relationship between power demand and flow. Flow rate and power demand must be measured simultaneously to determine the number of kilowatt hours needed to pump an acre foot of water. This relationship, called a power consumption coefficient, is applied to the year end power records to determine the total acre feet diverted.

The total water diverted can be accurately estimated if the system configuration or operation is not complex. Unfortunately, power records will not always yield acceptable results, and it will be necessary to install a flowmeter. **Flowmeters must be installed** if any of the following conditions exist:

- The well flows (artesian) so that water can be diverted when the pump is off.
- The energy consumption meter that records power used by the pump also records power used by other devices not integral to the irrigation system. For example, if the meter also records power used by a home, shop, cellar, etc., a flowmeter must be installed because power used by the pump cannot be isolated from the other devices. However, if the meter also records power used by center pivots, booster pumps, or other devices which operate when the main pump operates, the alternate method may be acceptable.
- The energy consumption meter records the power used by more than one well pump. If a deep well pump which discharges to an open pond or ditch and a relift pump are both connected to the same electrical meter, the discharge from the well pump can be measured, and a time clock can be installed to record the total number of hours of pump operation which can be multiplied by the flow rate to determine the total volume of water diverted.
- The energy supplied to the pump cannot be accurately and reliably measured. For example, most diesel and propane driven pumps do not have provisions to measure the fuel used by the engine. These will be reviewed on a case-by-case basis.
- The flow rate from the pump varies significantly due to changes in demand or operation. For example, pumps that discharge into a pressurized system some times and then open discharge at other times, or pumps that supply multiple pivots, would likely have flow rates that change drastically. These changes would alter the flow to power ratio, causing inaccurate estimates of diversions. The alternate method of estimating water withdrawals with power records may only be used if the water user can propose an acceptable method of tracking these changes in operation.
- Changing water levels cause the flow or operating pressures to vary significantly over the irrigation season.

## **CERTIFICATE OF SERVICE**

**I HEREBY CERTIFY that on this 21<sup>st</sup> February, 2007, 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. 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 and controlling works on diversion from the salmon river and tributaries in WD170.

A handwritten signature in cursive script that reads "Christine Roberts". The signature is written in dark ink and is positioned above a horizontal line.

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SORENSEN  
11541 HARTSOOK ST  
NORTH HOLLYWOOD CA 91601

CAROLE KLEIN & CAROLE K  
SORENSEN  
PO BOX 146  
STANLEY ID 83278

WILLIAM A KNIGHT  
HC 67 BOX 725  
CLAYTON ID 83227

WILLIAM L & LAWANA G KNOX  
HC 67 BOX 2089  
CHALLIS ID 83226

JERRY W & FAYE KNOX  
PO BOX 301  
CHALLIS ID 83226

KENT K KOEPPEN  
PO BOX 1302  
CHALLIS ID 83226

MAE & JIM T KOPP  
PO BOX 98  
CHALLIS ID 83226

CATHERINE A & LAWRENCE J  
KRATZ  
5352 W BUCKSKIN  
POCATELLO ID 83201

THOMAS KREEGER  
7320 HILL RD  
ROSEVILLE CA 95661

L & W STONE CORP  
PO BOX 789  
CHALLIS ID 83226

LISA & NEAL LAMB  
PO BOX 1273  
FRIDAY HARBOR WA 98250

JOHN W R LANGERMANN  
6 ASH PLACE  
CAMBRIDGE MA 02138

ALLICYN & JACK LATIMER  
HC 61 BOX 3029  
CHALLIS ID 83226

GLADYS & RAY LAVERTY  
PO BOX 178  
CHALLIS ID 83226

RUTH & HAROLD LEATON  
PO BOX 97  
CHALLIS ID 83226

PATRICK W LEE  
C/O JOHN T BROWN  
PO BOX 61  
SUN VALLEY ID 83353

TIMOTHY LEUZINGER  
BOX 157  
CHALLIS ID 83226

DOYLE & JUDI LEUZINGER  
HC 67 BOX 2085  
CHALLIS ID 83226

CLARENCE LEUZINGER  
PO BOX 271  
CHALLIS ID 83226

GARY LEUZINGER  
118 E 1000 N  
FIRTH ID 53236

MADI LEVINSON  
4503 HOOVER  
BOISE ID 83705

LILAC THREE LLC/LILAC SIX LLC  
C/O JOAN MARTINKO MGR  
1118 S BRADDOCK AVE (REAR)  
PITTSBURG PA 15218

ROBERT PAUL LIND & MARCY T  
MORGAN  
HC 67 BOX 2060  
CHALLIS ID 83226

LITTLE WICKIUP RANCH LLC  
AN IDAHO LIMITED LIABILITY CO  
33244 EGLON RD NE  
KINGSTON WA 98346

NANCY LOGAR  
1855 MAYBERRY DR  
RENO NV 89509

STEVEN G & JANICE LONG  
PO BOX 981  
CHALLIS ID 83226

DOUGLAS G LONG  
PO BOX 6  
CLAYTON ID 83227

LAVON D LOYND  
HC 67 BOX 2097  
CHALLIS ID 83226

LLOYD LUKKES  
8472 WINSTON RD  
STANTON CA 90680

ARTHUR & BETTY RUSTIN LUSHER  
PO BOX 349  
CHALLIS ID 83226

BARBARA J MAC MILLEN &  
RICHARD E MAC MILLEN  
705 FOSS RD  
TALENT OR 97540

J MICHAEL MAHONEY  
77 MURRY AVE  
LARKSPUR CA 94939-1003

DANIEL J MAHONEY III  
234 EL BRILLO WAY  
PALM BEACH FL 33480

FLOYD T & MARY L MAJORS  
HC 63 BOX 1542  
CHALLIS ID 83226

HELEN P & TED L MALONE  
HC 63 BOX 1749  
CHALLIS ID 83226

MICHAEL M & PATRICIA A  
MALONEY  
PO BOX 108  
CLAYTON ID 83227

MICHAEL M & PATRICIA A  
MALONEY  
BOX 487  
SMITHERS BC VOJ2NO

JONATHAN H MARVEL  
PO BOX 1602  
HAILEY ID 83333

JACQUELINE A & WILLIAM A  
MATTHEWS  
PO BOX 116  
CHALLIS ID 83226

PAUL W & RUTH N MATUSKY  
HC 63 BOX 1519  
CHALLIS ID 83226

PAUL L & SHARON L MAY  
805 EL PASO DR  
HEYBURN ID 83336

PHYLLIS W & LARRY L MC DOWELL  
HC 67 BOX 2030  
CHALLIS ID 83226

THOMAS V & BECKY J MC GOWAN  
PO BOX 1040  
CHALLIS ID 83226

RUBY H & VERNE A MC GOWAN  
PO BOX 325  
CHALLIS ID 83226

JOHN M MC KAIN  
253 MARTIN ST  
TWIN FALLS ID 83301

CAROL MENDIOLA  
1050 PARK HILL  
BOISE ID 83702

JUDITH & KEVIN MEYER  
16120 STATE HIGHWAY SPUR 78 #3  
FORT DAVIS TX 79734

MARY J & JAMES B MITCHELL  
10502 JAY RD  
BOISE ID 83703

DALE MIZER  
PO BOX 728  
HAILEY ID 83333

EUGENE DURELL MOON  
677 GREENBRIER DR  
HEYBURN ID 83336

BRIDGET & DONNIE G MOORE  
PO BOX 522  
CHALLIS ID 83226

JOHN M MOORE  
HC 67 BOX 640  
CLAYTON ID 83227

GWENDOLYN L MOORE  
HC 67 BOX 640  
217 HWY 75  
CLAYTON ID 83227

MORGAN CREEK CATTLE ASSN  
C/O DELBERT HUGHES  
HC 61 BOX 3054  
CHALLIS ID 83226

MOUNTAIN SPRINGS RANCH  
5550 BARTON FLAT RD  
MACKAY ID 83251

MARILYN ANN MUELLER  
HC 64 BOX 9475  
KETCHUM ID 83340

M VICTORIA MUMFORD & HERBERT  
W MUMFORD III  
PO BOX 402  
STANLEY ID 83278

A H MUNSON  
HC 63 BOX 1757  
CHALLIS ID 83226

KEN E NAGY  
508 WEST CHESTNUT ST  
GENESEE ID 83832

MYLA R & WILLIAM M NALLION  
HC 63 BOX 1812  
CHALLIS ID 83226

JAY CARROL & CONNIE A NEIDER  
5821 MORNING DOVE RD  
NAMPA ID 83686

ARLENE LYNN & PETE LEGR&E  
NELSON  
HC 61 BOX 3025  
CHALLIS ID 83226

NEZ PERCE TRIBE ACTING THROUGH THE  
CHAIRMAN  
NEZ PERCE TRIBAL EXEC CMTE  
PO BOX 305  
LAPWAI ID 83540

JULIAN O & DIANE C NICHOLSON  
RT 3 BOX 6432  
TWIN FALLS ID 83301

MARK T & PATRICIA A NICKUM  
PO BOX 1565  
HAILEY ID 83333

JACK & RUTH V NIECE  
PO BOX 45  
STANLEY ID 83278

JAY P & LINDA M NORRIS  
504 9TH AVE  
MENLO PARK CA 94025

NORTHWEST FARM CREDIT  
SERVICES FLCA  
2225 W BROADWAY #A  
IDAHO FALLS ID 83402

MARSHALL D & JOLENE OGDEN  
HC 67 BOX 550  
CLAYTON ID 83227

ALMA MARIE OSBORN  
2439 N BIRCHGROVE LN  
BOISE ID 83703

HELEN MAHONEY PARDOE  
234 E 49TH ST  
NEW YORK NY 10017

JOSEPH L & REBECCA J  
PARKINSON  
123 W HIGHLAND VIEW DR  
BOISE ID 83702

PARKINSON FOUNDATION SEED FARM  
C/O BOB PARKINSON  
PO BOX 65  
ELLIS ID 83235

RICK C PARKS  
PO BOX 801  
TWIN FALLS ID 83303

JAMES K PENINGER  
PO BOX 781  
CHALLIS ID 83226

SUSAN P PERIN  
PO BOX 480  
SUN VALLEY ID 83353

DEBRA J & DONALD W PETERS  
PO BOX 766  
CHALLIS ID 83226

JAMES R PETERS  
605 BRD RUN RD  
WEST CHESTER PA 19382

PETERSEN RANCH TRUST  
C/O CLARENCE E PETERSEN  
585 W 33RD S  
SALT LAKE CITY UT 84115

DEAN PETERSON  
PO BOX 723  
CHALLIS ID 83226

VIRGINIA & HAROLD G PHARRIS  
PO BOX 9  
HAZELTON ID 83335

BETTE Y & KENNETH C PHILLIPS  
9293 WOODLARK  
BOISE ID 83709

MARJORIE J & STEVE F PHILLIPS  
PO BOX 1235  
CHALLIS ID 83226

ELIZABETH N & GEORGE F  
PHILLIPS  
PO BOX 544  
CHALLIS ID 83226

CHERYL & RICK PHILPS  
HC 63 BOX 1630  
CHALLIS ID 83226

ROBERT A & KAY A PIVA  
HC 63 BOX 1641  
CHALLIS ID 83226

PIERO, BRUNO, & MARY C PIVA  
PO BOX 176  
CHALLIS ID 83226

JULIAN & MARION PIVA  
PO BOX 94  
CHALLIS ID 83226

MICHAEL PIVA  
PO BOX 308  
STANLEY ID 83278

KAREN PORTER & ROBERT J  
PORTER II  
598 SUNRISE BLVD N  
TWIN FALLS ID 83301

JAMES G & CINDY M QUIRK  
HC 69 BOX 497A  
AMARGOSA VALLEY NV 89020

LOUIS F RECINE JR  
PO BOX 1391  
POCATELLO ID 83204

REDFISH LAKE LODGE INC  
C/O JACK SEE  
PO BOX 9  
STANLEY ID 83278

&REA L & DAVID E REEDER  
PO BOX 1128  
CHALLIS ID 83226

CRAIG V REMBER  
HC 60 BOX 9928  
STANLEY ID 83278

ELIZABETH L REMBER  
HC 64 BOX 9928  
STANLEY ID 83278

JODI B REYNOLDS & EARL C  
REYNOLDS JR  
2089 WHITE PINE LN  
BOISE ID 83706

JAMES R REYNOLDS JR  
544 LAKEMEAD WAY  
REDWOOD CITY CA 94062

LOIS T & CLYDE O RIGBY  
PO BOX 345  
CHALLIS ID 83226

TED & CATHY ROBERTS  
7216 APPLGATE DR  
HELENA MT 59602

THOMAS M ROBERTSON  
156 2ND AVE W  
PO BOX 525  
TWIN FALLS ID 83303

ALLEN B ROBINS  
HC 63 BOX 1547  
CHALLIS ID 83226

WENDY A & KENNETH J RODGERS  
PO BOX 659  
CHALLIS ID 83226

ROGER A BROWNING TRUST &  
KATHERINE A BROWNING  
360 N BEDFORD DR #204  
BEVERLY HILLS CA 90210-5157

ROJOEMCO  
PO BOX 4  
C/O RON SMITH  
STANLEY ID 83278

S&RA S & DAVID P ROSENKRANCE  
PO BOX 628  
CHALLIS ID 83226

MICKY ROSKELLEY  
HC 67 BOX 2051  
CHALLIS ID 83226

JOYCE C & TED J ROTHBAUER  
40 CHIMILES TL  
GORDON VALLEY  
SUISUN CA 94585

ROUND VALLEY ACRES WATER  
ASSN INC  
PO BOX 941  
CHALLIS ID 83226

PHYLLIS & PATRICK RUSSELL  
PO BOX 11  
STANLEY ID 83278

KENNETH C RYAN  
631 S 7TH ST  
POCATELLO ID 83201

DONA R & AARON E SAATHOFF  
6310 S 530 E  
MURRAY UT 84107

MARTHA MAHONEY SADLER  
PO BOX 1024  
PALM BEACH FL 33480

SALMON FALLS L& & LIVESTOCK  
CO INC  
123 BELL RAPIDS RD  
HAGERMAN ID 83332

SALMON FALLS SHEEP CO  
RT 1 BOX 74  
HAGERMAN ID 83332

SALMON RIVER EMERGENCY  
CLINIC INC  
PO BOX 129  
STANLEY ID 83278

JOSEPH & MARIE SAMPINO  
PO BOX 1411  
CHALLIS ID 83226

GEORGE E SANTEE JR  
PO BOX 2341  
IDAHO FALLS ID 83403

ROBERT N SAVAGE  
HC 63 BOX 1687  
CHALLIS ID 83226

SAWTOOTH INTERPRETIVE &  
HISTORICAL ASSN  
PO BOX 75  
STANLEY ID 83278

BILLY SCHLUNEGGER  
PO BOX 374  
HAILEY ID 83333

SHAWNA & ROBERT SCHNABEL  
HC 63 BOX 1750  
CHALLIS ID 83226

DORIS I & RICHARD L SCHNEIDER  
PO BOX 103  
STANLEY ID 83278

RICHARD W & CHRISTINE E  
SCHOWENGERDT  
2794 HWY 93 S  
SALMON ID 83467-5396

JUDY A & HARRY SCHULTZ  
HC 63 BOX 1565  
CHALLIS ID 83226

PAUL SCHUT & LUCILLE WEBB  
RT 1 BOX 474  
ARCO ID 83213

NEDRA & J DON SESSIONS  
HC 64 BOX 9696  
KETCHUM ID 83340

ANNE SHANNON  
PO BOX 5067  
KETCHUM ID 83340

MARY A. SHAUL  
2317 E 49TH N  
IDAHO FALLS ID 83401

GREGORY MARTIN & CAROL ANNE  
SHEFTS  
705 HWY 93 N  
SALMON ID 83467

ARCHIE SHERWOOD  
PO BOX 163  
CLAYTON ID 83227

SHOSHONE BANNOCK TRIBES  
PO BOX 306  
FORT HALL ID 83203

LARRY G & JUDY A SIDLO  
HC 63 BOX 1580  
CHALLIS ID 83226

FRED SILVA  
1923 N 2ND ST  
BOISE ID 83702

JIM SILVA  
PO BOX 743  
SHOSHONE ID 83352-0743

CINDY & DWIGHT SIMMONS  
HC 63 BOX 1552  
CHALLIS ID 83226

PETER A SIMON  
3034 S WHITE POST WAY  
EAGLE ID 83616

DEBORAH & WAYNE SIMPSON  
PO BOX 1056  
CHALLIS ID 83226

LYNN & JOHN SIMPSON  
309 MANUELLA  
WOODSIDE CA 94062

CHARLOTTE J SINCLAIR  
29 STARFISH CT  
NEWPORT BEACH CA 92663

JANE N & WILLIAM J SLATTERY  
401 BITTERROOT DR  
BOISE ID 83709

SMILEY CREEK WATER USERS  
ASSN  
HC 64 BOX 9108  
KETCHUM ID 83340

JOHN S & CHARLOTTE M SMITH  
PO BOX 27  
CHALLIS ID 83226

JUDY & LOYEL DEAN SMITH  
PO BOX 734  
CHALLIS ID 83226

ROBERT C ST CLAIR  
PO BOX 659  
DAVENPORT WA 99122

STAN HARRAH CORP & VERNA  
HARRAH  
PO BOX 12968  
RENO NV 89510

WILLIAM D STANLEY  
354 N 300 W  
BLACKFOOT ID 83221

STANLEY LAKE CREEK WATER  
USERS ASSOCIATION  
SUSAN D & DAVID K BENNION  
2212 RIDGE POINT WAY  
BOISE ID 83712

STANLEY SEWER ASSN  
PO BOX 71  
STANLEY ID 83278

MARK & BRENDA STARK  
HC 63 BOX 1778  
CHALLIS ID 83226

STATE OF IDAHO  
DEPT OF TRANSPORTATION  
BUREAU OF AERONAUTICS  
3483 RICKENBACKER  
BOISE ID 83705

STATE OF IDAHO  
DEPT OF FISH & GAME  
PO BOX 25  
BOISE ID 83707

STATE OF IDAHO  
DEPT OF LANDS  
700 W JEFFERSON, ROOM 210  
PO BOX 44449  
BOISE ID 83711

STATE OF IDAHO  
DEPT OF PARKS & RECREATION  
STATEHOUSE MAIL  
PO BOX 83720  
BOISE ID 83720

STATE OF IDAHO  
IDAHO WATER RESOURCE BOARD  
322 E FRONT ST  
PO BOX 83720  
BOISE ID 83720

STATE OF IDAHO  
DEPT OF FISH & GAME  
PO BOX 1336  
SALMON ID 83467-1336

LINDA L & ROBERT M STEEVER  
PO BOX 118  
COOL CA 95614

BETH N STEPHENS  
HC 61 BOX 3028  
CHALLIS ID 83226

DOLLY STERLING  
PO BOX 195  
CHALLIS ID 83226

LYNN T STEVENSON  
HC 63 BOX 1586  
CHALLIS ID 83226

FRED R STEWART  
RT 4 BOX 4826  
JEROME ID 83338

WILLIAM A STRICKLAN  
PO BOX 174  
CARMEN ID 83462

TED & MYRA STRICKLER  
PO BOX 191  
CHALLIS ID 83226

FRED E & ESTHER A STRICKLER  
2480 E HUBBARD RD  
MERIDIAN ID 83642

JERRY S, ELAINE, & TAB J STUART  
PO BOX 1092  
CHALLIS ID 83226

THOMAS R STUART III  
2301 HILLWAY DR  
BOISE ID 83702

TONI K & JOE SULLIVAN  
PO BOX 119  
CHALLIS ID 83226

SUNRISE ACRES HOMEOWNERS  
ASSN  
PO BOX 1115  
CHALLIS ID 83226

LULA & RICHARD SWINDELL  
PO BOX 236  
CHALLIS ID 83226

KATHRIN S & ROBERT L TAYLOR  
PO BOX 771  
CHALLIS ID 83226

THE &REW & LINDA LAWLER  
FAMILY TRUST  
2691 BAYSHORE DR  
NEWPORT BEACH CA 92663

THE DANIEL J MAHONEY JR LIFETIME  
TRUST II  
C/O JOHN D WARD ESQ  
1200 NEW HAMPSHIRE AVE  
NW SUTIE 800  
WASHINGTON DC 20036-6802

THE ESTATE OF FRED C  
HUMPHREYS  
C/O ERNEST DAY  
10495 STONE QUARRY RD  
PAYETTE ID 83661

THE MC COMISH FAMILY TRUST  
300 HOTSPRINGS RD #221  
MONTOCITO CA 93108-2035

EDWINA, S&Y, LEE, MIKE THOMAS  
HC 63 BOX 1575-4  
CHALLIS ID 83226

MORGAN & DENISE THOMAS  
102 HORSESHOE CIR  
HAILEY ID 83333

THOMPSON CREEK MINING CO  
PO BOX 62  
CLAYTON ID 83227

NYLE J & SHIRLEY ANN THORNOCK  
PO BOX 570  
CHALLIS ID 83226

C ROD & CHRISTINE L THORNTON  
PO BOX 246  
KETCHUM ID 83340

THREE G CO C/O ROBERT Y KOPF  
BUCHANAN-INGERSOLL  
600 GRANT ST 58TH FLOOR  
PITTSBURG PA 15219

THOMAS T TIERNEY  
2412 MESA DR  
NEWPORT BEACH CA 92660



ELIZABETH C TIERNEY  
2832 DOW AVE  
TUSTIN CA 92680

THOMAS L TRITTIPO  
HC 67 BOX 320  
STANLEY ID 83278

FRANCES & MICHAEL TUPPER  
HC 63 BOX 1814  
CHALLIS ID 83226

ROBERT E & S&RA L TURNER  
HC 67 BOX 692  
CLAYTON ID 83227

UNITED STATES OF AMERICA ACTING  
THROUGH  
USDI BUREAU OF LAND MANAGEMENT  
IDAHO STATE OFFICE  
1387 S VINNELL WAY  
BOISE ID 83709

UNITED STATES OF AMERICA ACTING  
THROUGH  
USDA FOREST SERVICE  
550 W FORT ST MSC 033  
BOISE ID 83724

UNITED STATES OF AMERICA ACTING  
THROUGH  
USDI FISH & WILDLIFE SERVICE  
DIVISION OF ENGINEERING  
911 N E 11TH AVE  
PORTLAND OR 97232-4181

UNITED STATES OF AMERICA TRUSTEE  
ON BEHALF OF NEZ PERCE TRIBE  
ACTING THROUGH BIA  
911 NE 11TH AVE  
PORTLAND OR 97232

US ANTIMONY CORP  
PO BOX 643  
THOMPSON FALLS MT 59873

US DEPT OF AGRICULTURE  
FOREST SERVICE  
324 25TH ST

US DEPT OF AGRICULTURE  
FOREST SERVICE  
SAWTOOTH NATIONAL FOREST  
2647 KIMBERLY RD E  
TWIN FALLS ID 83301

US DEPT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
1387 S VINNELL WAY  
BOISE ID 83709

OGDEN UT 84401

USDI – BLM SALMON DIST OFC  
1206 S CHALLIS ST  
SALMON ID 83467

USDA FOREST SERVICE  
BOISE NATIONAL FOREST  
1249 S VINNELL WAY STE 200  
BOISE ID 83709

VALLEY SUN LLC  
C/O ANN M DOWN  
PO BOX 844  
SUN VALLEY ID 83353

VALLEY SUN LLC  
PO BOX 844  
SUN VALLEY ID 83353

THOMAS & LESLIE VAN KAMPEN  
PO BOX 361  
CHALLIS ID 83226

CINDY & KURT W VAN PELT  
HC 67 BOX 2015  
CHALLIS ID 83226

WILLIAM H & ANN S VANDERBILT  
2651 COCONUT DR  
SANIBEL FL 33957

RUSSEL L VERBECK  
PO BOX 532  
CHALLIS ID 83226

VERSALLES REAL ESTATE CORP  
C/O ANDREE DOYLE  
725 N RIVERSIDE DR #201  
POMPANO BEACH FL 33062

LOIS VON MORGANROTH  
1223 MONTANA AVE  
SANTA MONICA CA 90403

GOLDE WALLINGFORD  
PO BOX 4671  
KETCHUM ID 83340

KENT S & DEBRA L WATSON  
PO BOX 650  
CHALLIS ID 83226

JERI L. WAXENBERG  
PO BOX 1680  
SUN VALLEY ID 83353

WDW LLC  
115 VICTOR DR  
HAILEY ID 83333

ROBERT M WEBSTER  
1010 INDUSTRIAL RD SP 124  
BOULDER CITY NV 89005

ROBIN J WEGNER  
HC 63 BOX 1576  
CHALLIS ID 83226

ELIZABETH K WELCH & RICHARD E  
WELCH JR  
PO BOX 813  
KETCHUM ID 83340

THEODORE M & D ELAINE WELP  
PO BOX 270  
STANLEY ID 83278

KAREN WHITWORTH  
HC 63 BOX 1645  
CHALLIS ID 83226

FRANK P WILLEY  
601 RIVERSIDE AVE 12TH FLOOR  
JACKSONVILLE FL 32204

MEITA D WILSON  
PO BOX 188  
BELLEVUE ID 83313

HAROLD D WILSON  
PO BOX 343  
CHALLIS ID 83226

KATHERINE K & FRED M WINTER  
87 VALLEY VEIW DR  
POCATELLO ID 83204

WO-HE-LO SUBDIVISION  
HC 64 BOX 9951  
STANLEY ID 83278

DAVID M & DEBORAH K WOOD  
PO BOX 946  
CHALLIS ID 83226

WOOD RIVER LAND TRUST CO  
119 E BULLION ST  
HAILEY ID 83333

BRETT & DANIEL WOOLLEY  
PO BOX 23  
STANLEY ID 83278

&REW JACKSON & GWENDOLYN O  
WOOLWINE  
PO BOX 942  
CHALLIS ID 83226

DOROTHY M WREN  
HC 63 BOX 1581-2  
CHALLIS ID 83226

ANTONY R YACOMELLA  
C/O MADGE YACOMELLA  
PO BOX 51  
CHALLIS ID 83226

BILL ROY, THOMAS LEE, & ANTONY  
R YACOMELLA  
PO BOX 318  
CHALLIS ID 83226

THOMAS LEE, BILL ROY, MADGE E,  
TONY S YACOMELLA  
PO BOX 51  
CHALLIS ID 83226

TERRI S & THOMAS L YACOMELLA  
PO BOX 769  
CHALLIS ID 83226

YANKEE FORK GOLD DREDGE  
ASSN  
PO BOX 459  
WENDELL ID 83355

LINDA ANN ZOLLINGER  
HC 63 BOX 1170 SP 10  
CHALLIS ID 83226

AEGIS RESOURCES INC  
C/O ROBERT AND MARILYN BRUCE  
PO BOX 27740  
LAS VEGAS NV 89118

JAMES AND WILMA ALEXANDER  
PO BOX 88  
CHALLIS ID 83226

BARBARA & CARL BROWNING  
PO BOX 259  
BELLEVUE ID 83313

MYLES COLE  
292 BLUE LAKES BLVD S  
TWIN FALLS ID 83301

DALE COLE  
PO BOX 821  
PAUL ID 83347

ROGER C CRANDLEMIRE  
PO BOX 2085  
EAGLE ID 83616

ALBERT & LUCILE F DENNEY  
PO BOX 74  
STANLEY ID 83278

JAMES H ELISON  
2701 CHRISTMAS TREE LAND  
BAKERSFIELD CA 93306

JAMES FRAHM, ANDD MC  
LAUGHLIN & ARLENE STRANGO  
2888 ELIZABETH BLVD  
TWIN FALLS ID 83301

GOODHUE, HORALEK & WINKLE  
C/O 816 S 2<sup>ND</sup> AVE  
BARSTOW CA 92311

DEANNA HANSON  
HC 67 BOX309  
STANLEY ID 83278

STAN HARRAH CORP & VERNA  
HARRAH  
PO BOX 12968  
RENO NV 89510

DELORIS & LEO HENSCHIED  
351 MONROE PL  
TWIN FALLS ID 83301

WILLETT KAY HULL  
2126 RAWHIDE ST  
LAS VEGAS NV 89119

DONALD & JUDITH L MEST  
PO BOX 171  
STANLEY ID 83278

SALMON RIVER RANCHES LTD CO  
250 N SUMMIT MOORS DR  
OCONOMOWOC WI 53066

MERRILL SHUPE  
183 N 1100 W  
WEST BOUNTIFUL UT 84087

VERLE SHUPE  
246 E ELBERTA DR  
NORTH OGDEN UT 84414

JAMES SHUPE  
296 S 250 E  
HYDE PARK UT 84318

OWEN K SHUPE  
470 E 750 S  
LOGAN UT 84321

ARCHIE & MILDRED SLATER  
PO BOX 587  
830 ADELL AVE  
FILER ID 83328

O DELL SMITH JR  
70 N 2<sup>ND</sup> E  
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