



## State of Idaho

# DEPARTMENT OF WATER RESOURCES

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June 26, 2009

C. L. "BUTCH" OTTER  
Governor

DAVID R. TUTHILL, JR.  
Director

**Re: Final Order Requiring Measuring Devices for Ground Water Diversions in Water District No. 140, Oakley Valley Area.**

Dear Water User,

The Idaho Department of Water Resources (IDWR or Department) has issued the enclosed order requiring installation of measuring devices for diversions of ground water rights within Water District No. 140 and the Department's Administrative Basin No. 45, plus a portion of Administrative Basin No. 47 within the Artesian City Critical Ground Water Area. The enclosed order is a Final Order issued by the Department Pursuant to Section 67-5246, Idaho Code. Any party may file a petition for reconsideration of a final order as explained in the enclosed information sheet.

The order requires that measuring devices be installed on most irrigation and non-irrigation ground water diversions. The requirement excludes diversions for deminimis domestic and stock water uses. Also excluded are diversions for irrigation uses of 5 acres or less and/or other uses if the rate of diversion is less than or equal to 0.24 cubic feet per second (equivalent to 108 gallons per minute), and not part of a larger system where other rights are diverted.

Measuring devices for closed conduit systems must be magnetic flow meters meeting Department criteria unless a variance has been provided by the Water District 140 watermaster or IDWR. Devices must be installed by December 31, 2009 for non-irrigation diversions and no later than the start of the 2011 irrigation season for all qualifying irrigation diversions. The order provides for consideration of alternative measurement methods and flow meters upon submittal of requests and plans by water users, and upon approval by the watermaster or IDWR. 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 are available on IDWR's Internet site at the following address:

<http://www.idwr.idaho.gov/WaterManagement/WaterMeasurement/PDFs/MinAccepStand-1062009.pdf>

Water users that are required to install measuring devices must submit plans to the watermaster or IDWR for each of the diversions shown on Attachments A and B of the order. Plans must be submitted by September 15, 2009 for all non-irrigation use wells, and by May 15, 2010 for all irrigation use wells. Plans must include the well identification number or legal descriptions as shown in Attachments A and B, and include the following minimum information for each flow meter: meter manufacturer, model, rate and volume units, pipe size, , and a sketch, diagram or photo of the meter installation location. Where meters are already installed, users should proceed with submitting plans by the required due date that include all the above

information plus the existing meter installation date. Existing flow meters may be approved for use if they meet accuracy tests.

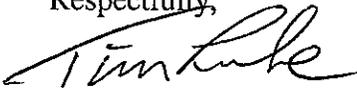
Alternative methods or meters may be proposed in the plans. Required information for alternative flow meters is the same as in the previous paragraph. Plans for alternative methods, such as use of power records (or Power Consumption Coefficients), should include detailed information about the overall diversion and conveyance system, including descriptions of various operating conditions, system discharge points, booster pumps, and power meters, as well as any information about multiple pumps or loads on the same power meter. Proposals for alternative measurement methods must be accompanied by a brief statement which explains the need or justification for the alternative method.

Water users may download generic forms for submittal of measuring device plans from the following IDWR web site address:

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

If you have questions concerning this order, please contact the Watermaster for Water District 140, Cindy Yenter, at the IDWR Twin Falls Regional Office (208-736-3033), or contact either Corbin Knowles or Tim Luke at the IDWR State Office (208-287-4800).

Respectfully,



Tim Luke  
Water Distribution Section

Enclosures:

*Final Order Requiring Measuring Devices in Water District 140, Dated June 25, 2009 (8 pages)*

*Explanatory Information to Accompany a Final Order (1 page)*

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

Cc: Cindy Yenter, Watermaster, Water District 140  
IDWR Southern Region

**BEFORE THE DEPARTMENT OF WATER RESOURCES  
OF THE  
STATE OF IDAHO**

**IN THE MATTER OF REQUIRING MEASURING )  
DEVICES FOR GROUND WATER DIVERSIONS )  
IN WATER DISTRICT NO. 140 (OAKLEY VALLEY )  
AREA), AND FOR GROUND WATER DIVERSIONS ) **FINAL ORDER**  
IN THE ARTESIAN CITY CRITICAL GROUND )  
WATER AREA IN ADMINISTRATIVE BASIN NO. 47 )  
\_\_\_\_\_ )**

On December 28, 2006, the Director of the Idaho Department of Water Resources (Department or IDWR) signed a *Final Order Creating Water District No. 140* in the Department's Administrative Basin No. 45. On January 11 and January 12, 2007, certain water users within the Department's Administrative Basin No. 45 filed Petitions for Reconsideration regarding the Director's Final Order Creating Water District No. 140.

On September 5, 2008, the Department sent an *Amended Final Order Creating Water District No. 140* to owners of all water rights in Administrative Basin 45, with the exception of domestic and stockwater rights defined in Section 42-111, Idaho Code.

A primary purpose of a water district is the administration of water rights within the water district by a watermaster. A watermaster administers water rights in part by measuring diversions and adjusting controlling works to deliver the authorized flow rate and/or volume to the water right holder. The Department finds that it is necessary to require the installation of measuring devices for ground water diversions within Water District No. 140 (Water District 140) and that portion of the Artesian City Critical Ground Water Area that extends outside of Water District No. 140 and located within Administrative Basin No. 47.

**FINDINGS OF FACT**

1. Prior to the formation of Water District 140, the Department created Water Measurement Districts in the Eastern Snake Plain Aquifer (ESPA). The *Final Order Creating Water Measurement Districts and Notice of Annual Meeting*, signed October 24, 1996, created three Water Measurement Districts for the purpose of measuring diversions of ground water within the ESPA, and making annual reports to the Department.

2. The ESPA West Water Measurement District (WWMD) area was defined in the October 24, 1996 order as: *‘Those portions of administrative basins 36, 37, 43, and 45 which overlie the Eastern Snake Plain Aquifer as defined by Rule 50.01 of the Rules of Conjunctive Management...’* Holders of certain ground water rights located in the Burley area, within Administrative Basin 45 and Water District 140 have previously reported diversions to the WWMD.

3. Southwest Irrigation District (SWID) and Magic Valley Ground Water District (MVGWD) have previously measured and reported ground water withdrawals from diversions within the WWMD that are now in Water District 140. SWID also measured ground water withdrawals from diversions in Administrative Basins 45 and 47 which were not included in the WWMD. Goose Creek Irrigation District (GCID) has implemented a ground water measurement program within their boundaries in the past year and has begun to report withdrawals to the Water District 140 watermaster. Most of the ground water diversions in the GCID were not located in the WWMD and therefore not previously subject to measurement and reporting requirements.

4. There are four Critical Ground Water Areas (CGWAs) within Water District 140, including the Artesian City, West Oakley Fan, Golden Valley and Oakley Kenyon CGWAs. A portion of the Artesian City CGWA is also located with Administrative Basin 47 and outside the boundary of Water District 140. The four CGWAs are characterized by overall declining ground water levels and many irrigation wells experience significant pumping drawdown during the irrigation season. Pursuant to Section 42-233a, Idaho Code, “the Director may require all water right holders within a CGWA to report withdrawals of ground water and other necessary information for the purposes of assisting him in determining available ground water supplies and their usage.”

5. The Golden Valley Water District or Water District No. 45-O (WD45-O) overlays the Cottonwood CGWA in Administrative Basin 45 and Water District 140. Water rights in WD45-O are administered in priority order pursuant to a decree dated October 1, 1971 and two subsequent DEPARTMENT Orders dated May 9, 1972 and August 30, 2004. Flow meters are required for all regulated diversions in WD45-O. Ground water withdrawals in WD45-O are measured and reported by the watermaster of WD45-O.

6. The current method used to determine annual ground water withdrawals from nearly all irrigation wells within Water District 140 that are currently required to be measured and reported is the power consumption coefficient (PCC) method. IDWR’s *Water Measurement and Reporting Guidelines (February 2, 1999)* specify that “the PCC method will not be approved as a substitute for a meter for complex systems where flow rate or total dynamic head at the pump varies due to multiple valve adjustments; multiple discharge locations in a pipeline; the method of delivery varies between open discharge, low pressure or high pressure sprinkler systems during an irrigation season; multiple wells/pumps are tied together with common mainline(s); or the ground water level changes significantly during the year.” A number of ground water pumping systems in Water District 140 and the CGWAs receive supplemental surface water, are fitted with booster pumps typically powered from the same kilowatt hour meter as the deep well, and are tied into the same mainline. Many ground water pumping systems are complex, operating at more than three (3) distinct flow and demand conditions. Pumping drawdown during the irrigation season has been documented by SWID as exceeding 200 feet in at least one

representative well within SWID boundaries<sup>1</sup>. Water levels and/or pumping drawdown can vary up to 40 feet or more within many areas of Water District 140. Any one or more of these circumstances – changing ground water levels, multiple demand loads, or multiple operating conditions – causes use of the PCC method to be invalid. Measurements of many diversions that are currently measured within Water District 140 therefore do not meet the Department’s IDWR minimum standards for measurement of ground water.

7. The *Amended Final Order Creating Water District No. 140* included water rights from both surface and ground water sources in the water district. The Order acknowledges that many surface water rights are presently being administered and measured by existing water districts in Basin 45. WD45-O administers and measures certain ground water rights in the Cottonwood CGWA. The Order designates these existing water districts as sub-districts within Water District 140. Other ground water diversions in Water District 140 are either not being measured or reported pursuant to Section 42-701, Idaho Code, or do not meet present Department ground water measurement standards.

### CONCLUSIONS OF LAW

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

42-233a. “CRITICAL GROUND WATER AREA” DEFINED – PUBLIC HEARINGS – PUBLICATION OF NOTICE – GRANTING OR DENIAL OF APPLICATION – APPEAL.

When a "critical ground water area" is designated by the director of the department of water resources, or at any time thereafter during the existence of the designation, the director may approve a ground water management plan for the area. The ground water management plan shall provide for managing the effects of ground water withdrawals on the aquifer from which withdrawals are made and on any other hydraulically connected sources of water.

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.

The director, upon determination that the ground water supply is insufficient to meet the demands of water rights within all or portions of a critical ground water area, shall order those water right holders on a time priority basis, within the area determined by the director, to cease or reduce withdrawal of water until such time as the director determines there is sufficient ground water.

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<sup>1</sup> “Ground Water Management Plan (Draft 4): Southwest Irrigation District and Goose Creek Irrigation District”, prepared by Brian Higgs, Water Well Consultants, undated, p10.

2. 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.

3. Section 42-1416B Idaho Code provides, in pertinent part:

**42-1416B. CLAIM FOR EXPANDED USE IN CRITICAL GROUND WATER AREA -  
-DETERMINATION OF WATER AVAILABILITY.**

(1) Within any critical ground water area designated pursuant to section 42-233a, Idaho Code, a claim to the expanded use of a ground water right, which use was expanded in violation of the mandatory permit requirements, may be decreed in a general water rights adjudication if the expansion occurred after the designation of the critical ground water area, before the commencement of the adjudication, and before the date of enactment of this section. The priority date for the right decreed shall be June 30, 1985.

(2) Water shall be deemed unavailable to fill the rights for expanded use, even if decreed in the adjudication, unless the director finds that a management program exists which will, within a time period acceptable to the director, limit the average annual water withdrawals from the aquifer designated in the critical ground water area to no more than the average annual recharge to the aquifer.

(3) Within two (2) years after a decree determining the water rights within a critical ground water area becomes final, but not sooner than four (4) years from the date of enactment of this section, the director of the department of water resources shall make a finding as to whether an adequate management program exists to bring withdrawals into balance with recharge.

(4) If the director finds that an adequate management program to bring withdrawals into balance with recharge does not exist, the director shall order all holders of rights to expanded use of ground water within the area to cease or reduce withdrawal of water until such time as the director determines that withdrawals have been brought into balance with recharge and sufficient ground water is available to resume or increase withdrawals.

4. The Director should require installation of measuring devices for diversions of ground water rights that are subject to administration by Water District 140. The requirement should include qualifying ground water diversions located within in each of the critical CGWA's in Water District 140 and that portion of the Artesian City CGWA that extends into Administrative Basin 47.

## ORDER

### IT IS HEREBY ORDERED AS FOLLOWS:

1. Holders of ground water rights in Administrative Basin 45 and that portion of the Artesian City CGWA in Administrative Basin 47, 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 for the purpose of assisting the WD 140 watermaster in reporting the amount of water withdrawn from each well. Owners of wells that are required to be measured shall submit written plans and install measuring devices according to the time schedule set forth in the table found in item 4 of this section. Exceptions to the measurement and reporting requirements of this order are made for the following ground water uses and diversions unless further notified by the Department:

- a. Domestic and stockwater uses as defined by Section 42-111, Idaho Code;
- b. Diversions of ground water or water systems with multiple diversions irrigating less than or equal to five (5) acres;
- 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 cubic feet per second (approximately 108 gallons per minute).
- d. Diversions of water rights from geothermal resources located upstream of the Oakley Reservoir in Water District 140.

2. Measuring devices that are acceptable to the Department for wells that are required to be measured shall be magnetic flow meters meeting the specifications listed in the Department's *Minimum Acceptable Standards for Open Channel and Closed Conduit Measuring Devices (copy attached)*. These specifications apply to both irrigation and non-irrigation water uses.

3. A variance of the magnetic flow meter requirement may be considered upon submittal of a written plan to the Water District 140 watermaster. Acceptable variances may include the following methods or devices:

- 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 non-magnetic flow meter that was installed *prior to the date of this order*;
- *For irrigation diversions only*, use of an acceptable non-magnetic flow meter where it can be shown that installation of the standard magnetic flow meter would be burdensome.

Requests for variance of the measurement method must be received no later than the applicable Plan Due Date shown in the table in item 4 of this section, and will be considered by the Water District 140 watermaster and the Department on a case-by-case basis. Variances proposing use of an existing flow meter must meet Department criteria and accuracy tests. Existing meters which do not meet standards, or which fail, will be required to be replaced with a magnetic flow meter unless another variance is obtained. The suitability of any pumping plant for approval of an hour meter or the PCC method of

measurement will be based on criteria found in the *IDWR Water Measurement and Reporting Guidelines*.

4. For each point of diversion listed in Attachments A and B, a measurement plan must be submitted, and shall be reviewed by the Department and the Water District 140 watermaster to determine whether proposed measuring devices are of a type acceptable to the Department, and that the device(s) will be installed according to specifications. Plans must be received and measuring devices must be installed and operational by the dates found in the schedule below. If measuring devices are already in place, a written description and diagram of the works shall be submitted to the WD 140 watermaster along with a request for variance by the Plan Due Date. Requests for variances proposing use of alternative measuring devices or methods, including PCC and time clocks, must be submitted to the Water District 140 watermaster by the Plan Due Date. Attachment descriptions, plan due dates and required measurement device installation dates are set forth in the following table:

	Attachment Description	Plan Due Date	Installation Date
Attachment A	diversions for all non-irrigation ground water rights and uses (except those noted in items 1a. – 1d.)	9/15/2009	12/31/2009, or 30 days after plan approval if plan is not approved by 9/1/2009
Attachment B	diversions for all irrigation ground water rights and uses (except those noted in items 1a. – 1d. of this Order)	5/15/2010	3/15/2011 or prior to 2011 irrigation season for diversions that must be measured with flow meters. Approved variances must be implemented no later than the 2011 irrigation season

5. Implementation of the flow meter requirement on irrigation wells is delayed until 2011 to allow for a flow meter pilot program to be carried out within SWID. Acceptable magnetic flow meters will be installed on a minimum of six to twelve irrigation wells in SWID during the 2009 and/or 2010 irrigation season(s). Flow meters selected for the pilot program must meet all Department criteria and must be installed according to manufacturer’s specifications. In cooperation with the Water District 140 watermaster, the SWID hydrographer shall test the accuracy of each flow meter, shall record flow meter serial numbers, test results and other pertinent data for each flow meter in the WMIS database, and shall take a totalizer reading on each meter before, after, and on a monthly basis during the irrigation season or seasons in which the study is conducted. Annual use data collected from flow meters may be compared to annual use data estimated using current measurement methods for those wells. Overall performance of the flow meters will also be rated by the SWID hydrographer, Water District 140 watermaster and well owner. Results from the pilot program shall be used to help guide the selection and installation of irrigation flow meters in Water District 140. During the term of the pilot flow meter program, and until flow meter implementation is fully phased in, all other irrigation wells in SWID shall continue to be measured by SWID using the currently identified measurement method, and estimated annual use data shall be reported to Water District 140.

6. Extensions and Exemptions. If a user cannot comply with the deadline in item 4 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 on or before the Plan Due Date specified in the table in item 4 above. Requests for extensions will be considered by the Department on a case-by-case basis. A potential reason for an extension may be due to requirements of other government entities such as a Federal land set aside program, or because the diversion is temporarily not in use. In some situations, the Department may exempt points of diversion on Attachments A and B from the requirements of item 4 above. Conditions that may result in an exemption include, but are not limited to, the following:

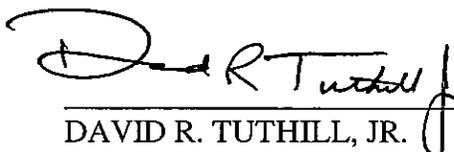
- Abandonment, non-use, or consolidation of diversions that results in a diversion on Attachments A or B being unused, or which reduces the total diversion rate to less than or equal to 0.24 cfs and/or irrigation of less than five acres.

8. This Order shall be effective immediately on any new ground water diversions authorized after the date of this Order, except those ground water uses or diversions identified in items 1 a. through 1d. of this section. This Order shall be effective after specific notification of the watermaster for any ground water diversion not otherwise listed on one of the Attachments hereto. This Order does not require the installation of lockable controlling works, although nothing in this Order shall preclude 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 diversion that does not have, or who fails to maintain, an adequate measuring device at any and all times following the required installation dates shown in the table in item 4 above unless an extension or exemption has been provided by the Department.

10. The watermaster shall be responsible for collection of all measurement data and annual reporting of such data. Organized sub-districts within Water District 140, or other organized entities including irrigation districts, ground water districts, or municipalities, may propose a method for the recording and reporting of measurements to the Water District 140 watermaster from wells within their respective organizations. Reporting methods or plans should follow the standards set forth in the *IDWR Water Measurement and Reporting Guidelines*. Organized Water District 140 sub-districts or other organized entities may include proposals for recording and reporting measurements in the written plans that are required by this order, in accordance with the Plan Due Dates set forth in the table in item 4 above.

Dated this 25<sup>th</sup> day of June, 2009.

  
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DAVID R. TUTHILL, JR.  
DIRECTOR

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that on this 26 day of June, 2009, 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 posted on the Department's website: [www.idwr.idaho.gov](http://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.



Christine Roberts  
Office Records Specialist  
Idaho Department of Water Resources

**EXPLANATORY INFORMATION  
TO ACCOMPANY A  
FINAL ORDER**

(To be used in connection with actions when a hearing was not held)

(Required by Rule of Procedure 740.02)

The accompanying order is a "Final Order" issued by the department pursuant to section 67-5246, Idaho Code.

**PETITION FOR RECONSIDERATION**

Any party may file a petition for reconsideration of a final order within fourteen (14) days of the service date of this order as shown on the certificate of service. **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 67-5246(4), Idaho Code.

**REQUEST FOR HEARING**

Unless the right to a hearing before the director or the water resource board is otherwise provided by statute, any person who is aggrieved by the action of the director, and who has not previously been afforded an opportunity for a hearing on the matter shall be entitled to a hearing before the director to contest the action. The person shall file with the director, within fifteen (15) days after receipt of written notice of the action issued by the director, or receipt of actual notice, a written petition stating the grounds for contesting the action by the director and requesting a hearing. See section 42-1701A(3), Idaho Code. **Note: The request must be received by the Department within this fifteen (15) day period.**

**APPEAL OF FINAL ORDER TO DISTRICT COURT**

Pursuant to sections 67-5270 and 67-5272, Idaho Code, any party aggrieved by a final order or orders previously issued in a matter before the department may appeal the final order and all previously issued orders in the matter 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: a) the date of issuance (not service) of the final order, b) the date of issuance of an order denying petition for reconsideration, or c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration, whichever is later. See section 67-5273, Idaho Code. The filing of an appeal to district court does not in itself stay the effectiveness or enforcement of the order under appeal.

## Attachment A

Non-Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
	BETTENCOURT	LUIS	12S 20E 13 SESE	Golden Valley Dairy Tank Well (West)	A0006890	140	140
	BETTENCOURT	LUIS	12S 20E 13 SWSESE	Golden Valley Dairy Unused Domestic		140	140
	BETTENCOURT	LUIS	12S 21E 18 SWSESW	Golden Valley Dairy Barn Well		140	140
	BETTENCOURT	LUIS	12S 21E S18 SENWSW L3			140	140
	BETTENCOURT	LUIS	12S 21E S19 SWSWSW L4	Golden Valley Dairy South Well		140	140
	BEUKERS	JOHN	12S 21E S28 SWNWNW	Golden Valley heifer lot	A0006881	140	140
	CRANE	DANFORD L	12S 20E 6 NWSE	NW Well	A0002630	140	140
	CRANE	DANFORD L	12S 20E 6 SESE	SE Well		140	140
	WARD	DAN	11S 23E S15 NENE	East Well	A0010099	140	140
	WARD	DAN	11S 23E S15 NWNE	MAIN WELL	A0010100	140	140
	WARD	DAN	11S 23E S15 NWNE	New Dairy Well	A0010097	140	140
	WARD	DAN	11S 23E S15 NWNE	Backup well	A0010098	140	140
ALLIANCE LAND & LIVESTOCK LLC			11S 22E 7 SENW	Dairy west well		140	140
ALLIANCE LAND & LIVESTOCK LLC			11S 22E 7 SENW	Dairy east well		140	140
AMERICAN COW MILKING ENTERPRISE DAIRY INC			13S 22E S31 SWSWSE		A0000361	140	140
AMERICAN COW MILKING ENTERPRISE DAIRY INC			13S 22E S32 SWNWSW		A0017706	140	140
ANDERLAND LLC	ANDERSON	ALAN	10S 25E 16 NWNESW	Hurst #5		140	140
ANDERLAND LLC	ANDERSON	ALAN	10S 25E 16 SWSENW	Hurst Dairy #2		140	140
ANDERLAND LLC	ANDERSON	ALAN	10S 25E 16 SWSENW	Hurst Dairy #3		140	140
ANDERLAND LLC	ANDERSON	ALAN	10S 25E 16 SWSENW	Hurst #4		140	140
ANDERLAND LLC	ANDERSON	ALAN	10S 25E S16 NWSENW	HURST DAIRY WELL	A0002974	140	140
BOISE CASCADE CORP	COOPER	CLAY	10S 23E S30 NWSWSE L4	NORTH WELL	A0002815	140	140
CITY OF ALBION	POWELL	KAY	12S 25E S6 NESENW L4	well # 2		140	140
CITY OF ALBION	POWELL	KAY	12S 25E S6 SENWNW L4	Well # 3	A0017731	140	140
CITY OF ALBION	POWELL	KAY	12S 25E S6 SENWNW L4	Well # 4		140	140
CITY OF ALBION	POWELL	KAY	12S 25E S6 SWNWNE L4	Well # 1	A0017726	140	140

\*Note: Owner names are those associated with Water District 140 water measurement records. Some names may not match current water right ownership records used in mailing the attached order.

## Attachment A

Non-Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
CITY OF BURLEY	REITER	BRYAN	10S 22E S22 SWSESE	# 27 (DUTCHMEN) WATER TANK WELL	A0002981	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S16 SWSE	# 26 PLANT WELL (WASTE TREAT)	A0002858	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S17 SWSESE	well # 7		140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 NWSW	#13 (DRAKE)	A0007810	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 NWSWNW	#14 (LARSON)	A0007809	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SESENE	#15 (NORTH PARK)	A0007808	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SESWNE	#17 (SNOW)	A0007807	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SWSE	#8	A0002618	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SWSENE	#18 (FAIRGROUND)	A0002619	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SWSWSE	#2	E0007520	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SWSWSE	#9 (HOGAN)	A0002617	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S20 SWSWSE	Well # 1	E0007518	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S21 NENW	# 22 (PASTURE WELL)	A0002895	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S22 SESWSW	CULINARY #17 GOLF COURSE		140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S22 SWSWSW	IRRIGATION #18 GOLF NORTH	A0007805	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S27 NWNW	#20 (GOLF SOUTH)	A0007804	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S28 SENENW	#16 (Pleasant View Cem)	A0007806	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S28 SWNWNW	#21 (CEMETERY EAST)	A0007803	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S29 NESWNE	#10 (ALMO)	A0002613	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S29 NWNENW	#12 (KELLER)	A0002616	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S29 SWNWNW	#11	A0002614	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S30 NESENE	#3	E0007519	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S30 NWSENE	#19 (SALMON)	A0002615	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S32 SENE	#5	E0007521	140	140
CITY OF BURLEY	REITER	BRYAN	10S 23E S33 SWNW	#6	E0007827	140	140
CITY OF DECLO	FRIES	GENE	10S 24E S27 SESESE	OLD WELL	E0007561	140	140
CITY OF DECLO	FRIES	GENE	10S 24E S27 SWSESE	NEW WELL	E0006913	140	140
CITY OF MURTAUGH			11S 20E S6 NWSW L6		D0023159	140	140
CITY OF MURTAUGH			11S 20E S6 NWSW L6		D0034482	140	140
CITY OF MURTAUGH			11S 20E S7 NWNW L1			140	140
CITY OF OAKLEY			14S 22E S2 SESWSW		A0017803	140	140

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## Attachment A

Non-Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
CITY OF OAKLEY			14S 22E S9 SENWSE		E0007570	140	140
CITY OF OAKLEY			14S 22E S9 SENWSE		E0007571	140	140
EAST RIDGE MILK		RAY	09S 25E S33 SWSW	Main Dairy Well	D0002718	140	140
EAST RIDGE MILK		RAY	09S 25E S33 SWSW	New Well	D0050157	140	140
GOLDEN RAIL MOBILE HOME COURT	LOUGHMILLER	CHARLIE	10S 22E S29 NWNW	TRAILER PARK WELL	E0007540	140	140
IDA GOLD FARMS	GERRATT	REX	11S 23E S10 NWNENW	SMALL DAIRY 3 Hp WELL	A0002935	140	140
IDA GOLD FARMS	GERRATT	REX	11S 23E S10 NWNENW	SMALL DAIRY 5 HP WELL	A0002934	140	140
IDA GOLD FARMS	GERRATT	REX	11S 23E S10 SENWNW	BIG DAIRY SOUTH WELL	A0002937	140	140
IDA GOLD FARMS	GERRATT	REX	11S 23E S10 SENWNW	BIG DAIRY NORTH WELL	A0002938	140	140
IDA GOLD FARMS	GERRATT	REX	11S 23E S10 SENWNW	BIG DAIRY MIDDLE WELL	A0002936	140	140
J R SIMPLOT COMPANY	CONRAD	VIC	10S 23E S20 NWSW	INDOOR WELL (BURLEY PROCE	A0002997	140	140
J R SIMPLOT COMPANY	CONRAD	VIC	10S 23E S29 NWSW	WEST WELL (POTATO PROCESS	A0002996	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SESW L2	WELL # 5	A0002961	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SESW L2	WELL # 6	A0002955	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SESW L2	WELL # 4	A0002960	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SWSE	WELL # 9	A0002963	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SWSE L1	WELL # 7	A0002962	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SWSW L3	PUMP # 2	A0002959	140	140
MCCAIN FOODSERVICE INC	GALLIHER	DUSTY	10S 22E S23 SWSW L3	PUMP # 1	A0002959	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J OR L AVEL	11S 22E S8 NESW	UPPER FEEDLOT WELL	A0007993	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J OR L AVEL	11S 22E S8 SESW	LOWER FEEDLOT WELL	A0007994	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J OR L AVEL	11S 24E S21 SENE	Back-up well (submers)	A0002779	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J OR L AVEL	11S 24E S21 SENE	MAIN WELL VERTICLE TURB.	A0007973	140	140
MOO VIEW COW PALACE	SEARLE	RAYMOND	11S 24E S18 NWNENE	HOUSE WELL	A0013501	140	140
MOO VIEW COW PALACE	SEARLE	RAYMOND	11S 24E S18 SENENE	LIVESTOCK WELL (WEST)	A0011850	140	140
MOO VIEW COW PALACE	SEARLE	RAYMOND	11S 24E S18 SWNENE	BARN WELL (EAST)	A0011851	140	140
OAKLEY VALLEY WATER CO			13S 22E S21 SWSWSW			140	140
PARKVIEW CARE CENTER	CRITCHFIELD	JEB	10S 23E S29 NWNWSW	WELL	A0002929	140	140

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PICKETT RANCH & SHEEP CO			12S 21E S26 SWSWSW	Feedlot		140	140
SO IDAHO REGIONAL SOLID WASTE DIST	BARTLOME	JOSH	11S 21E S16 NENESW	Shop Well	D0034406	140	140
SO IDAHO REGIONAL SOLID WASTE DIST	BARTLOME	JOSH	11S 21E S16 SENENW	Office well	A0013508	140	140
SPRING CREEK TERRACES INC	WILSON	KERI	10S 24E S29 SESWSW L4	15 Hp WELL	A0002969	140	140
SPRING CREEK TERRACES INC	WILSON	KERI	10S 24E S29 SESWSW L4	2 Hp WELL	A0002968	140	140
SPRINGDALE ACRES HOMEOWNERS ASSN	VEGWERT	JERRY E	10S 24E S30 SESW L2	15 Hp WELL	A0007817	140	140
SPRINGDALE ACRES HOMEOWNERS ASSN	VEGWERT	JERRY E	10S 24E S30 SESW L2	5 Hp WELL	A0007816	140	140
TESSENDERLO KERLEY INC	SAILORS	STEVE	11S 22E S14 NESW	PLANT WELL	A0004824	140	140
TRAVEL STOP 216			10S 24E S11 NESWNW L2		A0005351	140	MVG
WAYMENT FARMS	WAYMENT	GARR	11S 23E S35 SESWSW	HOUSE WELL	A0004900	140	140
WAYMENT FARMS	WAYMENT	GARR	11S 23E S35 SESWSW	New well	D0008228	140	140
WESTERN FARM SERVICE INC.	HEIDEL	GARTH	11S 22E S14 NENE	SHOP WELL	A0013504	140	140

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## Attachment B

Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
	ADAMS	ELDON	12S 25E S6 SESWSW L7			140	140
	ADAMS	LARRY M & KATHY	11S 20E S26 SESESE	11S 20E 26DDD1	A0006932	140	SWI
	ADAMS	LARRY M & KATHY	11S 20E S34 NESW	11S 20E 34CAB1	A0006930	140	SWI
	ADAMS	LARRY M & KATHY	12S 20E S12 SWSWSE	12S 20E 12DCC1	A0006939	140	SWI
	ALLRED	JACK W	12S 22E S13 SWSWSE	12S 22E 13DCC1	A0006706	140	SWI
	ALLRED	JACK W	12S 22E S14 SWSWSE	12S 22E 14DCC1	A0006704	140	SWI
	ALLRED	JACK W	12S 23E S7 SWSWSW	12S 23E 07DCC1	A0005088	140	SWI
	ALLRED	JACKSON W	11S 23E S34 NWNWSW	11S 23E 34CBB1	A0005072	140	SWI
	ALLRED	JACKSON W	11S 23E S34 NWSWSW	11S 23E 34CCB1	A0005066	140	SWI
	ALLRED	JACKSON W	11S 23E S34 SWNWNW	11S 23E 34BBC1	A0005068	140	SWI
	ANDERSON	A W	12S 24E S12 SWSENE			140	140
	ASHER	TOM	12S 25E S6 NESWSE			140	140
	AUSTIN	CARL F	15S 21E S25 NESENE			140	140
	AUSTIN	CARL F	15S 21E S25 NESESW			140	140
	AUSTIN	CARL F	15S 21E S25 NESESW			140	140
	AUSTIN	CARL F	15S 22E S30 NENWNW L1		A0017747	140	140
	BAKER	RONALD G	12S 21E S6 NWNESE	12S 21E 06DAB1	A0006947	140	SWI
	BAKER	RONALD G	12S 21E S6 SWSWNE	12S 21E 06ACC1	A0006948	140	SWI
	BAKER	WADE	11S 22E S23 SESESW			140	SWI
	BANNER	KEVIN	12S 25E S6 NWSW L6			140	140
	BEAMS	WAYNE	14S 23E S9 NENW	Exchange Well		140	140
	BECK	DAVID	12S 21E S10 SENW	12S 21E 10BCA1	A0005114	140	SWI
	BECK	DAVID	12S 21E S10 SWSE	12S 21E 10DCD1	A0005127	140	SWI
	BECK	DAVID	12S 21E S6 SWNESW	12S 21E 06CAC1	A0006950	140	SWI
	BECK	DAVID	12S 21E S8 NENW	12S 21E 08BAD1	A0006945	140	SWI
	BECK	DAVID	12S 21E S8 SWSW	12S 21E 08CCC2	A0006941	140	SWI
	BECK	DAVID	12S 21E S9 NWSW	12S 21E 09BCC1	A0006944	140	SWI
	BECK	DAVID	12S 21E S9 SWSW			140	SWI
	BECK	DENNY J	11S 22E S4 SWNWSW	11S 22E 04CBC2	A0005241	140	SWI
	BECK	GRANT M	11S 22E S21 SWSWNW	11S 22E 21BCC1	A0005249	140	SWI
	BECK	JOSEPH C	11S 22E S4 SWSWNW	11S 22E 04BCC1	A0005242	140	SWI
	BEDKE	FRANK A	12S 22E S31 SESESE		A0002667	140	GCI
	BEDKE	FRANK A	13S 22E S31 NWNENE			140	GCI
	BEDKE	SCOTT	13S 22E S29 SESWNW			140	GCI
	BELL	LEO R	12S 25E S18 NWSENE		A0017733	140	140
	BELL	LEO R	12S 25E S9 SENWNE		A0017732	140	140
	BERNAD	BETTY A	09S 25E S30 SESE			140	MVG
	BESSIRE	GLENN C	11S 20E S30 SESE	11S 20E 30DDD1	A0006913	140	SWI

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Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

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	BESSIRE	GLENN C	11S 20E S31 NENE	40 HP	A0006911	140	SWI
	BESSIRE	GLENN C	11S 20E S31 SENE	100 HP	A0006912	140	SWI
	BETTENCOURT	LUIS	11S 19E S19 NENESE	11S 19E 19DAA2	A0005138		SWI
	BETTENCOURT	LUIS	11S 19E S19 SENESE	11S 19E 19DAD2	A0005139		SWI
	BETTENCOURT	LUIS	11S 19E S20 NWSW	11S 19E 20CBD2	A0005141		SWI
	BETTENCOURT	LUIS	11S 19E S20 SESESE	11S 19E 20DDD1	A0005043		SWI
	BETTENCOURT	LUIS	11S 19E S20 SWSWNE	11S 19E 20BDC1	A0005140		SWI
	BETTENCOURT	LUIS	11S 19E S21 NENESE	11S 19E 21DAA1	A0005061		SWI
	BETTENCOURT	LUIS	11S 19E S21 NESENW	11S 19E 21BDA1	A0005046		SWI
	BETTENCOURT	LUIS	11S 19E S21 NESESE	11S 19E 21DDA1	A0005040		SWI
	BETTENCOURT	LUIS	11S 19E S21 NWSWNW	11S 19E 21BCB1	A0005045		SWI
	BETTENCOURT	LUIS	11S 19E S21 SESW	11S 19E 21CDD1	A0005041		SWI
	BETTENCOURT	LUIS	11S 19E S21 SWSWNE	11S 19E 21ACC1	A0005047		SWI
	BETTENCOURT	LUIS	11S 19E S21 SWSWNW	11S 19E 21BCC1	A0005044		SWI
	BETTENCOURT	LUIS	11S 19E S22 SWSESE	11S 19E 22DCD1	A0005038	140	SWI
	BETTENCOURT	LUIS	11S 19E S23 SESWSW	11S 19E 23CCD1	A0005037	140	SWI
	BETTENCOURT	LUIS	11S 19E S25 SWSWSE	11S 19E 25DCD1	A0005004	140	SWI
	BETTENCOURT	LUIS	11S 19E S26 SESW	11S 19E 26CDD1	A0005034	140	SWI
	BETTENCOURT	LUIS	11S 19E S26 SWNE	11S 19E 26ACC1	A0005036	140	SWI
	BETTENCOURT	LUIS	11S 19E S26 SWSE	11S 19E 26DCC4	A0005024	140	SWI
	BETTENCOURT	LUIS	11S 19E S26 SWSWNE	11S 19E 26BDC1	A0005035	140	SWI
	BETTENCOURT	LUIS	11S 19E S27 SESENW	11S 19E 27ACC1	A0005032	140	SWI
	BETTENCOURT	LUIS	11S 19E S27 SESWNW	11S 19E 27BCD1	A0005031	140	SWI
	BETTENCOURT	LUIS	11S 19E S28 NENW	11S 19E 28BAD1	A0005042		SWI
	BETTENCOURT	LUIS	11S 19E S28 SENENE	11S 19E 28AAD1	A0005030		SWI
	BETTENCOURT	LUIS	11S 19E S28 SESESW	11S 19E 28CDD1	A0004153		SWI
	BETTENCOURT	LUIS	11S 19E S28 SWSE	11S 19E 28DCB1	A0005022		SWI
	BETTENCOURT	LUIS	11S 19E S28 SWSESE	11S 19E 28DCD1	A0005023		SWI
	BETTENCOURT	LUIS	11S 19E S29 NENW	11S 19E 29BAC1	A0005143		SWI
	BETTENCOURT	LUIS	11S 19E S29 SENENW	11S 19E 29BAD2	A0004152		SWI
	BETTENCOURT	LUIS	11S 19E S30 NESW	11S 19E 30BDC1	A0005145		DWR
	BETTENCOURT	LUIS	11S 19E S30 NESW	11S 19E 30CBD1	A0005152		DWR
	BETTENCOURT	LUIS	11S 19E S30 NWNE	11S 19E 30ABD1	A0005149		DWR
	BETTENCOURT	LUIS	11S 19E S30 NWSE	11S 19E 30BDD1	A0005144		DWR
	BETTENCOURT	LUIS	11S 19E S30 NWSWNE	11S 19E 30BDB1	A0005147		DWR
	BETTENCOURT	LUIS	11S 19E S30 SESESE	11S 19E 30DDD1	A0005154		SWI
	BETTENCOURT	LUIS	11S 19E S30 SESW	11S 19E 30CDA2	A0005153		DWR
	BETTENCOURT	LUIS	11S 19E S31 SESESE	11S 19E 31DCC1	A0005160		SWI

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 Irrigation Ground Water Diversions  
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	BETTENCOURT	LUIS	11S 19E S31 SWSWNE	11S 19E 31ACD1	A0005158		SWI
	BETTENCOURT	LUIS	11S 19E S32 NWNWNE	11S 19E 32BAA1	A0005155		SWI
	BETTENCOURT	LUIS	11S 19E S32 SESENE	11S 19E 32BDC1	A0005157		SWI
	BETTENCOURT	LUIS	11S 19E S32 SESESE	11S 19E 32DDD2	A0005019		SWI
	BETTENCOURT	LUIS	11S 19E S32 SWNWNE	11S 19E 32BAD1	A0005156		SWI
	BETTENCOURT	LUIS	11S 19E S33 SESENE	11S 19E 33ADD1	A0005033		SWI
	BETTENCOURT	LUIS	11S 19E S33 SESESE	11S 19E 33DDD1	A0005017		SWI
	BETTENCOURT	LUIS	11S 19E S33 SESW	11S 19E 33CDD1	A0005018		SWI
	BETTENCOURT	LUIS	11S 19E S33 SWSWNE	11S 19E 33BDC1	A0005020		SWI
	BETTENCOURT	LUIS	11S 19E S34 SESESE	11S 19E 34DDD1	A0005013	140	SWI
	BETTENCOURT	LUIS	11S 19E S34 SESWNE	11S 19E 34DBA1	A0005028	140	SWI
	BETTENCOURT	LUIS	11S 19E S34 SWSWNE	11S 19E 34ACC1	A0005029	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SESE	11S 19E 35DDC2	A0005009	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SESENE	11S 19E 35BDD5	A0005025	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SESWNE	11S 19E 35ACD1	A0005027	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SESWSW	11S 19E 35CCD1	A0005010	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SWSWNE	11S 19E 35BDD6	A0005026	140	SWI
	BETTENCOURT	LUIS	11S 19E S35 SWSESW	11S 19E 35CCD2	A0005011	140	SWI
	BETTENCOURT	LUIS	12S 19E S2 NENESE	12S 19E 02DAA1	A0005006	140	SWI
	BETTENCOURT	LUIS	12S 19E S2 NWNW	12S 19E 02BBC1	A0005012	140	SWI
	BETTENCOURT	LUIS	12S 19E S2 SESWNE	12S 19E 02ACD1	A0002644	140	SWI
	BETTENCOURT	LUIS	12S 19E S3 SWNW	12S 19E 03BCC1	A0005016		SWI
	BETTENCOURT	LUIS	12S 19E S4 SENE	12S 19E 04ADD1	A0005015		SWI
	BETTENCOURT	LUIS	12S 19E S5 SWNW	12S 19E 06ADD1	A0006956		DWR
	BETTENCOURT	LUIS	12S 19E S6 SESW	12S 19E 06CDD1	A0006954		SWI
	BETTENCOURT	LUIS	12S 19E S7 NENE	12S 19E 06DDD1	A0006955		DWR
	BETTENCOURT	LUIS	12S 19E S7 SENE	12S 19E 07ACA1	A0006957		DWR
	BETTENCOURT	LUIS	13S 21E S5 SESWSW	217		140	140
	BEUKERS	JOHN	12S 20E S1 SWNE	12S 20E 01BDD1	A0006933	140	SWI
	BEUKERS	JOHN	12S 20E S11 SENE	12S 20E 11ADC1	A0006934	140	SWI
	BEUKERS	JOHN	12S 20E S12 SWSW	12S 20E 12CCD1	A0006938	140	SWI
	BEUKERS	JOHN	12S 20E S13 SESE	12S 20E 13DDC1	A0006890	140	SWI
	BEUKERS	JOHN	12S 20E S3 SESESW	12S 20E 03CDD1	A0006922	140	SWI
	BEUKERS	JOHN	12S 20E S4 SWNWNW L4	12S 20E 04BCB1	A0006921	140	SWI
	BEUKERS	JOHN	12S 20E S4 SWSWSE	12S 20E 04DCD1	A0006923	140	SWI
	BEUKERS	JOHN	12S 21E S17 SESE	12S 21E 17DDD1	A0006887	140	SWI
	BEUKERS	JOHN	12S 21E S17 SWNE	12S 21E 17ACC1	A0006943	140	SWI
	BEUKERS	JOHN	12S 21E S17 SWNW	12S 21E 17CBB1	A0006942	140	SWI

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(Sorted by Owner Last Name, then Organization Name\*)

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	BEUKERS	JOHN	12S 21E S22 NESE	12S 21E 22DBA1	A0006870	140	SWI
	BEUKERS	JOHN	12S 21E S27 SWNW	12S 21E 27BCC1	A0006869	140	SWI
	BEUKERS	JOHN	12S 21E S33 SWNWNW	12S 21E 33BBC1	A0006878	140	SWI
	BEUKERS	JOHN	12S 20E S12 SWSWSE	12S 20E 12CCC1	A0006937	140	SWI
	BEUKERS	JOHN	12S 20E S2 SESE			140	SWI
	BEUKERS	JOHN	12S 21E S19 SWSWSE	12S 19E 19DCC2	A0006897	140	SWI
	BEUKERS	JOHN	12S 21E S21 SESWNW		A0006884	140	SWI
	BEUKERS	JOHN	12S 21E S28 SWSW	12S 21E 28CCB1	A0006879	140	SWI
	BEUKERS	JOHN	12S 21E S28 SWSWNW		A0006880	140	SWI
	BIGGERS	B KAY	11S 19E S22 SESESW	11S 19E 22CDD1	A0005039	140	SWI
	BIGGERS	B KAY	12S 21E S19 SWSWNE	12S 21E 19ACC1	A0006896	140	SWI
	BIGGERS	B KAY	12S 21E S20 SWNWNW	12S 21E 20BCB1	A0006889	140	SWI
	BINGHAM	MAX W	11S 22E S21 SWSWNW	11S 22E 19AAA1	A0005246	140	SWI
	BLACKER	MARVIN	11S 22E S15 SWSWNW	11S 22E 15BCC1	A0005287	140	SWI
	BLACKER	MARVIN	11S 22E S16 NWNWSW	11S 22E 16CBB1	A0005228	140	SWI
	BUTTERFIELD	LEE	09S 25E S20 SWSE		A0005355	140	MVG
	CHAMBERLAIN	PHILLIP C	10S 25E S29 SWNE			140	140
	CHATBURN	JEFF	12S 25E S4 SENWSE		A0017727	140	140
	CHATBURN	JEFF	12S 25E S4 SESENW		A0017723	140	140
	CHRISTENSEN	PAUL	10S 22E S33 SWSW	10S 22E 33CCC1	A0005243	140	SWI
	CLARK	GRANT	12S 25E S28 NENENE		A0009688	140	140
	CRANE	CALVIN C	11S 23E S10 SESENE	IRRIGATION WELL	A0002931	140	140
	CRANE	DANFORD L	12S 20E S5 NWSE	Sturgill	A0006908	140	SWI
	CRAWFORD	GARY	12S 25E S6 SESW			140	140
	CRITCHFIELD	KEITH P	13S 22E S28 SESESW		A0002684	140	GCI
	DARRINGTON	MARK L	10S 24E S36 SWSWNW	BIG D WELL	A0002768	140	140
	DARRINGTON	SHANE	11S 24E S10 NESE	TURNER'S NORTH WELL	A0002765	140	140
	DARRINGTON	SHANE	11S 24E S10 NESWNE	TURNER'S SOUTH WELL	A0002764	140	140
	DIMOND	LEE G	11S 25E S33 SESWSW		A0017722	140	140
	DRAKOS	CHRIS	11S 23E S33 SWNE	11S 23E 33ACC1	A0005064	140	SWI
	DRAKOS	CHRIS	11S 23E S33 SWNW	11S 23E 33BCC1	A0005069	140	SWI
	DRAKOS	CHRIS	11S 23E S33 SWSW	11S 23E 33CCC2	A0005080	140	SWI
	DRAKOS	CHRIS	12S 23E S20 SWNWNW	12S 23E 20BBC1	A0006701	140	SWI
	DRAKOS	CHRIS	12S 23E S20 SWSWNW	12S 23E 20BCC1	A0006705	140	SWI
	DRAKOS	CHRIS	12S 23E S6 SWSE	12S 23E 06DCC1	A0005078	140	SWI
	DUNCAN	HOWARD	10S 22E S31 SESWSE	10S 22E 31DDC1	A0005235	140	SWI

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## Attachment B

### Irrigation Ground Water Diversions

(Sorted by Owner Last Name, then Organization Name\*)

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	DUNCAN	HOWARD	10S 22E S32 NWSW	10S 22E 32CBC1	A0005236	140	SWI
	DUNCAN	HOWARD	11S 22E S5 SWSE	11S 22E 05DBC1	A0005232	140	SWI
	DUNCAN	JACK F	09S 25E S20 SWNESE	NELSON	A0005431	140	MVG
	DUNCAN	JACK F	09S 25E S28 SWSWSW	TRAM	A0005460	140	MVG
	DUNCAN	JACK F	09S 25E S33 NWSWSE	TRAM	A0009622	140	MVG
	DUNCAN	JACK F	09S 25E S34 NESESW			140	MVG
	FITZGERALD	HARRY W	12S 25E S7 NENE			140	140
	FUNK	BRENT & CHALET	11S 19E S30 NWSWNE	11S 19E 30AAC1	A0005150		SWI
	FUNK	BRENT & CHALET	11S 20E S32 SESESE	11S 20E 32DDD1	A0006909	140	SWI
	FUNK	BRENT & CHALET	12S 20E S5 SESWSW	12S 20E 05CDC1	A0006907	140	SWI
	FUNK	DARRELL	11S 19E S36 SWNESE	Tipton - Coiners	A0005002	140	SWI
	FUNK	DARRELL	11S 19E S36 SWSWSE	Matt's - Coiners	A0005001	140	SWI
	FUNK	DARRELL	11S 20E S26 NENENW	HOUSE WELL	A0006951	140	140
	FUNK	DARRELL		SOUTH FIELD WELL			
	FUNK	DARRELL	11S 20E S26 NWSWNE	WELL	A0006952	140	140
	FUNK	DARRELL		NORTH FIELD WELL			
	FUNK	DARRELL	11S 20E S26 NWSWNE	WELL	A0006953	140	140
	FUNK	DARRELL	11S 20E S31 SWNWSW	11S 20E 31CBC1	A0005105	140	SWI
	FUNK	DARRELL	11S 20E S33 SWSWNE	11S 20E 33ACD1	A0006924	140	SWI
	FUNK	DARRELL	11S 20E S33 SWSWNE	11S 20E 33ACD1	A0006924	140	SWI
	FUNK	DARRELL	11S 20E S33 SWSWSW	11S 20E 33CCC1	A0006910	140	SWI
	FUNK	DARRELL	12S 20E S6 SENWNW L4	Coiners (Hill 6)	A0000384	140	SWI
	FUNK	DARRELL	12S 20E S6 SWNW	Coiners Hill	A0006903	140	SWI
	FUNK	DARRELL	12S 21E S5 NWSWNW	12S 21E 05BCB1	A0006949	140	SWI
	FUNK	DARRELL	12S 21E S6 SENESE	12S 21E 06DAD1	A0006949	140	SWI
	FUNK	DAVID	11S 19E S22 SWSWSE	11S 19E 22ACC1	A0005060		SWI
	FUNK	DAVID	11S 19E S23 NENE	11S 19E 23AAB1	A0005058	140	SWI
	FUNK	DAVID	11S 19E S23 NWNW	11S 19E 23BBD1	A0005062	140	SWI
	FUNK	DAVID	11S 19E S23 SWNE	11S 19E 23ACB1	A0005059	140	SWI
	FUNK	DAVID	11S 20E S1 SESESW	IRRIGATION WELL	A0002967	140	140
	FUNK	DAVID	11S 20E S31 SENESW	11S 20E 31CAD1	A0006902	140	SWI
	FUNK	LEROY	11S 23E S4 NWSW	Irrigation Well	A0011831	140	140
	GARRARD	THOMAS E	11S 22E S36 SWSWNW	11S 22E 36BCC1	A0005276	140	SWI
	GARY	ERICKSON	12S 25E S6 NWSESE			140	140
	GEARY	V THOMAS	11S 22E S16 NWNW	11S 22E 16BBC1	A0005227	140	SWI
	GEARY	V THOMAS	11S 22E S9 NWSW	11S 22E 09CBB1	A0005229	140	SWI
	GOCHNOUR	JIM W & MARILYN A	10S 22E S33 SWNWNE	IRRIGATION WELL	A0002933	140	SWI

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	HARDY	RANDY L	13S 22E S21 SESESW			140	GCI
	HARDY	RANDY L	13S 22E S29 SWSWNE		A0002687	140	GCI
	HAWKER	FRED	11S 22E S10 SWNWSW	11S 22E 10CBC1	A0005284	140	SWI
	HEPWORTH	RAYMOND R	11S 20E S31 SWSENW	11S 20E 31BDC1	A0006901	140	SWI
	HEPWORTH	WILLIAM M	09S 25E S16 NWNESE	H & H	A0005310	140	MVG
	HEPWORTH	WILLIAM M	09S 25E S26 SWNWSE	#2	A0005478	140	MVG
	HEPWORTH	WILLIAM M	09S 25E S27 SWNWNE	25 S 750 E	A0005458	140	MVG
	HEPWORTH	WILLIAM M	09S 25E S31 NESESE	H2O	A0005455	140	MVG
	HEPWORTH	WILLIAM M	09S 25E S35 SWNWNE	#3	A0005479	140	MVG
	HEWARD	GERALD B	11S 23E S11 SESWNW	CRANE/HEWARD WELL	A0002980	140	140
	HEWARD	GERALD B	11S 24E S30 SESW			140	SWI
	HEWARD	GERALD B	11S 24E S30 SWSW L4	WELL 2 (CANAL WELL)	A0005292	140	SWI
	HEWARD	GERALD B	11S 24E S31 NENW	WELL # 3-NEW WELL	D0002424	140	SWI
	HEWARD	GERALD B	11S 24E S31 SENW	WELL 1 (IN MIDDLE OF SEC)	A0002979	140	SWI
	HIEB	ART & DORTHY	10S 25E S8 SENENE	Interstate Pump	A0005456	140	MVG
	HIEB	ARTHUR J	09S 24E S36 NENWNE		A0005433	140	MVG
	HOBSON	DAVID	10S 22E S29 SESESW			140	SWI
	HOBSON	DAVID	10S 22E S31 SESESW	10S 22E 31BDD1	A0005245	140	SWI
	HONDO	DANIEL A	11S 22E S23 SWSWSW	11S 22E 23CCC1	A0004184	140	SWI
	HONDO	DANIEL A	11S 23E S2 SESESW	IRRIGATION WELL	A0002843	140	140
	HURST	LOIS	11S 23E S10 NENE	IRRIGATION WELL	A0002926	140	140
	HURST	WAYNE	12S 25E S8 SENE		A0009625	140	140
	HUTCHINSON	JAY	09S 25E S29 SENESW		A0005441	140	MVG
	JAROLIMEK	LEROY	11S 21E S24 NENESE	350 HP	A0005257	140	SWI
	JAROLIMEK	LEROY	11S 21E S24 NESENE	400 HP	A0005256	140	SWI
	JAROLIMEK	LEROY	11S 22E S19 SESE	300 HP	A0005251	140	SWI
	KECHTER	RICHARD L	10S 21E S36 SESE	BIG WELL	A0002847	140	SWI
	KECHTER	RICHARD L	10S 21E S36 SESE	SMALL WELL	A0002845	140	SWI
	KECHTER	RICHARD L	11S 21E S2 SESESW	11S 21E 02CDD1	A0005206	140	SWI
	KELLEY	GEORGE M	12S 24E S1 NWNENW L3			140	140
	KELLEY	GEORGE M	12S 25E S7 SWSWSW L4		A0009624	140	140
	KEMPTON	JIMMY D	12S 25E S8 SWSWSW		A0009626	140	140
	KORB	LONNIE K	10S 22E S29 SESESW	IRRIGATION WELL	A0002945	140	140
	KUNAU	GLEN R	11S 21E S13 SWNWNE	11S 21E 13ACB1	A0005221	140	SWI

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	KUNAU	GLEN R	11S 21E S14 SENENE	11S 21E 14AAD1	A0005219	140	SWI
	KUNAU	GLEN R	11S 21E S23 NWNWNE	11S 21E 23BAA1	A0005264	140	SWI
	KUNAU	GLEN R	11S 21E S23 NWSE	11S 21E 23CAA1	A0005263	140	SWI
	KUNAU	GLEN R	11S 22E S17 NWNWSW	11S 22E 17CBB2	A0005225	140	SWI
	KUNAU	ROBERT	11S 21E S23 SESESW	11S 21E 23CDD1	A0005262	140	SWI
	KUNAU	ROBERT	11S 22E S23 SENESW	11S 22E 23CAD1	A0005290	140	SWI
	LARSEN	NEIL H	10S 24E S29 SENE L9	New Well	D0016124	140	140
	LARSEN	NEIL H	10S 24E S29 SENE L9	PAREES ISLAND IRR. WELL	A0002824	140	140
	LARSON	CRAIG	10S 22E S31 SESESW			140	SWI
	LARSON	CRAIG	10S 22E S33 SWSESE			140	SWI
	LARSON	CRAIG	10S 22E S34 SWSWSW			140	SWI
	LARSON	CRAIG	11S 22E S5 NWNWSW	11S 22E 05CBB1	A0005231	140	SWI
	LARSON	GLEN E	11S 22E S3 SWNWNW L2	11S 22E 03ABC1	A0005239	140	SWI
	LUSK	DE LOS D	12S 22E S6 NWNW	12S 22E 06BBB1	A0005113	140	SWI
	MARCHANT	GARELD S	13S 23E S32 SENWSE		A0017707	140	140
	MARCHANT	GARELD S	14S 23E S4 SWSE		A0017709	140	140
	MARTIN	HAROLD REX	13S 23E S33 NESW			140	140
	MARTIN	HAROLD REX	14S 23E S9 NENW	Exchange Well		140	140
	MARTIN	JOHN R	13S 22E S20 SESENE			140	GCI
	MARTIN	TIMOTHY J	12S 24E S1 SWSESE			140	140
	MATTHEWS	E EUGENE	11S 23E S29 SWSWNW	11S 23E 29BCC1	A0005070	140	SWI
	MATTHEWS	E EUGENE	13S 23E S28 SENESW	Big Well	A0002695	140	140
	MATTHEWS	E EUGENE	14S 23E S3 SWNWSW	Gorringe Well		140	140
	MCFARLAND	DON & CAROL	09S 25E S2 NWSE L2	IDAHO GOOSE RANCH	A0005442	140	MVG
	MCFARLAND	MARSHALL	09S 25E S10 SWNE	MORGAN SHILLINGTON	A0005446	140	MVG
	MCGILL	MARILYN	09S 25E S16 NWSE	175 N 675 E	A0005309	140	MVG
	MCMANUS	WILLIAM D	09S 25E S17 NESE		A0005475	140	MVG
	MCMANUS	WILLIAM D	09S 25E S17 NWNWSE		A0005476	140	MVG
	MITCHELL	DELL	10S 24E S1 SENESW		A0005435	140	MVG
	MITCHELL	LYNN N & JAN R	11S 24E S2 NWSESE	SOUTH WELL	A0002770	140	140
	MITCHELL	LYNN N & JAN R	11S 24E S2 NWSESE	NORTH WELL	A0002769	140	140
	MONTGOMERY	GEORGE A	12S 24E 12 SWSWENW	Montgomery New Well		140	140
	MONTGOMERY	GEORGE A	12S 24E S12 NWSWENW		A0017725	140	140
	NAIL	WILLETTE	11S 19E S36 SWNWSW	11S 19E 36CBC1	A0005003	140	SWI

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	NELSON	RAMONA B COUCH	11S 22E S4 SWSWSE	11S 22E 04DCC1	A0005240	140	SWI
	NEWCOMB	BRUCE	10S 25E S3 NWSWNW		A0005481	140	MVG
	NEWCOMB	BRUCE	10S 25E S3 SENESE		A0005327	140	MVG
	NEWCOMB	BRUCE	10S 25E S4 NWSESW		A0005482	140	MVG
	NEWCOMB	BRUCE	10S 25E S5 NESWSE	#4	A0005432	140	MVG
	NEWCOMB	BRUCE	10S 25E S6 NWSWSE		A0005473	140	MVG
	NEWCOMB	BRUCE	10S 25E S6 SENESE		A0005470	140	MVG
	NEWCOMB	MARK & LONNA	09S 25E S9 SESW	MORGAN	A0005445	140	MVG
	NEWCOMB	MARK & LONNA	10S 24E S1 NWSESE	#1	A0005472	140	MVG
	NEWCOMB	MARK & LONNA	10S 24E S12 SENWNE	Newcomb	A0005474	140	MVG
	NEWCOMB	MARK & LONNA	10S 25E S6 NWSWSE	#2	A0005473	140	MVG
	NEWCOMB	MARK & LONNA	10S 25E S7 SENENE	#7 1/2	A0005469	140	MVG
	NEWCOMB	MARK & LONNA	10S 25E S8 NENENW		A0010001	140	MVG
	NEWCOMB	MARK & LONNA	10S 25E S8 NESENW	#8	A0005468	140	MVG
	NEWCOMB	MARK & LONNA	10S 25E S9 NWSWSE	#11	D0050230	140	MVG
	NEWCOMB	MARK T	10S 25E S10 NESWSE	WELL # 13	A0002976	140	140
	NEWCOMB	MARK T	10S 25E S10 SWSESW	WELL # 14	A0002973	140	140
	NEWCOMB	MARK T	10S 25E S15 SWNWNE	WELL # 12	A0002975	140	140
	NEWCOMB	MARK T	10S 25E S17 NWNE	# 3 DAIRY WELL	A0002978	140	140
	NEWCOMB	MARK T	10S 25E S17 NWSESW	# 2 DAIRY WELL	A0002977	140	140
	NEWCOMB	MARK T	10S 25E S7 SWNE	#7, MINIDOKA FARMS	A0005471	140	MVG
	NEWCOMB	MARK T	10S 25E S8 SESE	WELL # 10	A0002972	140	140
	NEWCOMB	MARK T	10S 25E S9 NWSE	WELL # 10 1/2	A0002971	140	140
	PARRISH	COULSON	11S 22E S8 NENE			140	SWI
	PAYTON	CHARLES M	13S 22E S27 NWNWSW			140	GCI
	PAYTON	TIM	13S 22E S33 SENWSW			140	GCI
	PRICE	EUGENE F	11S 21E S2 SESENE	11S 21E 02ADD1	A0005201	140	SWI
	QUESNELL	RICHARD	11S 20E S29 NESENW	Richard Quesnell	A0006915	140	SWI
	REDMAN	ODEEN K	12S 25E S16 SENESE		A0017707	140	140
	ROBINS	GARY	11S 22E S24 NWSE	HOUSE IRRIGATION WELL	A0005294	140	140
	ROBINS	GARY	11S 22E S24 SENE	CANAL WELL	A0005063	140	140
	ROBINSON	LEROY	12S 25E S5 SESW			140	140
	ROBINSON	RAY	11S 25E S32 SESESE		A0017711	140	140
	ROBINSON	RICK R	13S 22E S9 SENWNE			140	GCI
	ROBINSON	RICK R	13S 22E S9 SWNWSW		A0002669	140	GCI

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	ROBINSON	RICK R	13S 22E S9 SWNWSW			140	GCI
	SCHRENK	ALLEN K	10S 25E S29 SWNENE			140	140
	SEARLE	GALE & PAUL M	11S 23E S28 SESENW	11S 23E 28BDC1	A0005093	140	SWI
	SEARLE	ORVAL	11S 24E S29 SESESE	NEW WELL		140	SWI
	SEARLE	RAYMOND C & SHAROL	11S 24E S23 SWNE	SUBDIVISION DIVERSION	A0004899	140	SWI
	SEARLE	SCOTT	11S 24E S29 SESE	200 Hp PUMP	A0002952	140	SWI
	SEARLE	SCOTT	11S 24E S29 SWSE	150 Hp WELL	A0002954	140	SWI
	SEYMOUR	JOHN AND EVELYN	11S 21E S3 SESENE	11S 21E 03ADA1	A0005202	140	SWI
	SIEVERS	GERALD J	11S 20E S29 NESW	11S 20E 29CAC1	A0006918	140	SWI
	SIEVERS	GERALD J	11S 20E S29 SESW	11S 20E 29CDD1	A0006916	140	SWI
	SIEVERS	GERALD J	11S 20E S30 SENE	11S 20E 30DDA1	A0006914	140	SWI
	SMITH	JAMES	09S 25E S29 SWSW		A0005440	140	MVG
	SMITH	JOHN E	11S 23E S13 NWSENE		A0013503	140	140
	SOMSEN	G FRANK	09S 25E S21 SENW			140	MVG
	SOMSEN	G FRANK	09S 25E S21 SWNWSE	30 N 650 E	A0005450	140	MVG
	SOMSEN	G FRANK	09S 25E S28 NWSWNW	25 S 600 E	A0005448	140	MVG
	SOMSEN	G FRANK	09S 25E S28 SENENE	25 S 700 E	A0005449	140	MVG
	SORENSEN	RONALD S	12S 24E S12 NESE			140	140
	SORENSEN	RONALD S	12S 24E S13 NENW			140	140
	STAFFORD	H DWAYNE	12S 21E S27 NESENE	12S 21E 27ADD1	A0006871	140	SWI
	STAFFORD	H DWAYNE	12S 21E S34 NENESE	12S 21E 34DAA1	A0006868	140	SWI
	STAFFORD	H DWAYNE	12S 21E S34 NESENE	12S 21E 34ADA1	A0006867	140	SWI
	STAFFORD	H DWAYNE	12S 21E S35 SENENE	12S 21E 35DAA1	A0006866	140	SWI
	STAFFORD	H DWAYNE	12S 21E S35 SESENE	12S 21E 35ADA1	A0006865	140	SWI
	STANGER	L H	11S 24E S28 NENWNW	IRRIGATION WELL	A0002970	140	SWI
	SUMMERS	CORALEE	11S 19E S31 SESESW	11S 19E 31CDC1	A0005161		SWI
	SUMMERS	CORALEE	11S 19E S31 SWSW L4	11S 19E 31CCB1	A0005162		SWI
	TURNER	DALE N	09S 24E S36 NWNWSE	150 S 370 E	A0005434	140	MVG
	TURNER	GARY CRAIG	12S 22E S7 SESENE	12S 22E 07ADD1	A0005269	140	SWI
	TURNER	GARY CRAIG	12S 22E S7 SWSENE	12S 22E 07ADC1	A0005268	140	SWI
	TURNER	RON	10S 24E S2 SENW L3	DEEP WELL	A0005439	140	MVG
	VANCE	MARION L	11S 22E S18 NENWNE	11S 22E 18ABA1	A0005223	140	SWI
	VANCE	MARION L	11S 22E S19 NWNWSW			140	SWI
	VILLALOBOS	FRANCISCO	11S 19E S13 SENW	11S 19E 13BDB1	D0050413	140	140
	VILLALOBOS	FRANCISCO	11S 19E S13 SWNW	11S 19E 13BCA1	A0005051	140	140

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	WALKER	AUSTIN RAY & JONI	11S 24E S11 NWNWNE	SOUTH WELL	A0002782	140	SWI
	WALKER	AUSTIN RAY & JONI	11S 24E S11 NWNWNE	NORTH WELL	A0002783	140	SWI
	WALTON	DANIEL C	09S 25E S10 SESE			140	MVG
	WALTON	DANIEL C	09S 25E S10 SESW	Canal Farm Well	A0005313	140	MVG
	WALTON	DANIEL C	09S 25E S32 SESE	Terry Farm Well	A0005459	140	MVG
	WALTON	DANIEL C	10S 24E S1 SWSW	Canal Well	A0005356	140	MVG
	WALTON	DANIEL C	10S 25E S2 NWSE	275 S 850 E	A0005388	140	MVG
	WALTON	DANIEL C	10S 25E S5 NWNW L4	Meyers #2 Well	A0005430	140	MVG
	WALTON	DANIEL C	10S 25E S6 SWNENW	Meyers #4	A0005454	140	MVG
	WALTON	DANIEL C	10S 25E S6 SWNW L5			140	MVG
	WALTON	DANIEL C	10S 25E S6 SWNWNE L2	Meyers #3 Well	A0005453	140	MVG
	WALTON	DANIEL C	10S 25E S7 SWNWSE	INTERSTATE WELL	A0002850	140	MVG
	WARD	DAN	11S 23E S15 SESESE	CRAWFORD DIVERSION	A0002932	140	140
	WARREN	JOHN L & ARTHELLA U	11S 21E S2 SENW	11S 21E 02BDA1	A0005208	140	SWI
	WARTHEN	EARL L	12S 25E S16 SENESW			140	140
	WHITELEY	W B	12S 22E S34 SWSWSE	12S 22E 34DCC1	A0006729	140	GCI
	WHITELEY	W B	13S 22E S33 SESENW		A0002686	140	GCI
	WICKEL	ARDEL W & JUDY M	09S 25E S31 NESW		A0005452	140	MVG
	WICKEL	ARDEL W & JUDY M	10S 25E S20 SWNWNE	IRRIGATION WELL	A0002838	140	140
	WICKEL	ARDEL W & JUDY M	10S 25E S30 NWSWNE	SMALL WEST WELL	A0002772	140	140
	WICKEL	ARDEL W & JUDY M	10S 25E S30 NWSWNE	TURBINE WELL	A0002773	140	140
	WICKEL	ARDEL W & JUDY M	10S 25E S30 SESWNE	SMALL EAST WELL	A0002771	140	140
	WOODBURY	ORIN B	11S 24E S31 NENE	WELL E WEST WELL	A0002834	140	140
	WOODBURY	ORIN B	11S 24E S32 NENE	WELL C (EAST WELL)	A0002953	140	140
	WOODBURY	ORIN B	11S 24E S32 NWNW	WELL A (EAST DOUBLE WELL)	A0002837	140	140

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## Attachment B

Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
	WOODBURY	ORIN B	11S 24E S32 NWNW	WELL B (WEST DOUBLE WELL)	A0002836	140	140
	WOODBURY	ORIN B	11S 24E S32 SWSW	WELL D (LITTLE WELL)	A0002833	140	140
	WOODHOUSE	J ALLEN	12S 22E S22 SWNW	12S 22E 22BCC1	A0006743	140	SWI
	WOODHOUSE	PAUL	12S 22E S14 SWNWSW	12S 22E 14CBC1	A0005091	140	SWI
	WOODHOUSE	PAUL	12S 22E S14 SWSWSW	12S 22E 14CCC1	A0006707	140	SWI
	WORNELL	PAUL P	12S 22E S12 SWSWSW	12S 22E 12CCC1	A0005096	140	SWI
	WRIGLEY	RICK D	11S 24E S31 NWNWSW	WRIGLEY WELL	A0005291	140	SWI
	WYATT	GRANT	11S 22E S10 SWNW	Home	A0005285	140	SWI
	WYATT	GRANT	11S 22E S28 SWSW	Other Place	A0004183	140	SWI
	YADON	WARREN	12S 25E S10 NESENW			140	140
	YADON	WARREN	12S 25E S10 NWSWNW		A0017734	140	140
	YADON	WARREN	12S 25E S9 SWNE			140	140
	ZOLLINGER	WADE	14S 23E S4 NENENW L3		A0017713	140	140
ACE REALTY TRUST	THOMPSON	ANTONE & ELANE	14S 21E S34 SWNW			140	140
ALLIANCE LAND & LIVESTOCK LLC			11S 21E S12 NESESE	11S 21E 12DAD1	A0005220	140	SWI
ALLIANCE LAND & LIVESTOCK LLC			11S 22E S17 NWNENW	11S 22E 17BAB1	A0005226	140	SWI
ALLIANCE LAND & LIVESTOCK LLC			11S 22E S5 SESE	11S 22E 05DDD1	A0005230	140	SWI
ALLIANCE LAND & LIVESTOCK LLC			11S 22E S7 SESWSE	11S 22E 07DCD1	A0005222	140	SWI
ALLIANCE LAND & LIVESTOCK LLC			11S 22E S8 SESW	Lower Feedlot - Irrigation meter	A0007994	140	SWI
ALLIANCE LAND & LIVESTOCK LLC			11S 22E S8 SWNW	Upper Feedlot - Irrigation	A0007993	140	SWI
ANDERLAND LLC	ANDERSON	ALAN	10S 25E S16 SENESW	KEARL WELL	A0002774	140	140
BART BECK FARMS	BECK	BART L	10S 21E S34 SESESE	WEST WELL	A0005205	140	140
BART BECK FARMS	BECK	BART L	10S 21E S35 SWSWSW	EAST WELL	A0005204	140	140
BEAN FARMS INC			11S 22E S25 SWSE	11S 22E 25DCD1	A0005273	140	SWI
BEAN FARMS INC			12S 22E S3 NWNW	12S 22E 03BBB1	A0005282	140	SWI
BEAN FARMS INC			12S 22E S3 SWSW	12S 22E 03CCC1	A0005074	140	SWI
BEAN HOLDING LLC			11S 22E S25 SWNW	11S 22E 25BCC1	A0005295	140	SWI
BEAN HOLDING LLC			11S 22E S25 SWSW	11S 22E 25CCB1	A0005275	140	SWI
BEAN HOLDING LLC			11S 22E S25 SWSWNE	11S 22E 25ACC1	A0005298	140	SWI
BEAN HOLDING LLC			11S 22E S26 SESE	11S 22E 26DCD1	A0005274	140	SWI

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(Sorted by Owner Last Name, then Organization Name\*)

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BEAN HOLDING LLC			11S 22E S26 SWNE	11S 22E 26ACC1	A0005297	140	SWI
BEAN HOLDING LLC			11S 22E S26 SWNE	11S 22E 26ACC2	A0005296	140	SWI
BECK BROTHERS			10S 22E S32 NWNENE	10S 22E 32ABD1	A0005244	140	SWI
BECKER FARMS INC			12S 22E S15 SWNWSW	#31	A0005065	140	SWI
BECKER FARMS INC			12S 22E S15 SWSESW	#32	A0006749	140	SWI
BECKER FARMS INC			12S 22E S15 SWSWSW	#30	A0006750	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	11S 21E S36 NENE	Sanders #2	A0005255	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	11S 21E S36 NENW	Sanders #1	A0005261	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	11S 22E S31 NWNE	Sanders #3	A0005254	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E 24 SWSWSW			140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E S1 NENE	Sanders #4	A0005125	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E S12 SESESW	12S 21E 12CDD1	A0005134	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E S13 SESENE	12S 21E 13ADD1	A0005132	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E S23 SWSESW	12S 21E 23CDD1	A0006858	140	GCI
BIG SKY DAIRY	VISSER	RUSSELL	12S 21E S24 SWSWSW	12S 21E 24CCC2	A0006859	140	GCI
BIG SKY DAIRY	VISSER	RUSSELL	12S 22E S5 SWNW	Sanders #5	A0005121	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 22E S5 SWSW	Sanders #6	A0005131	140	SWI
BIG SKY DAIRY	VISSER	RUSSELL	12S 22E S7 SESWSW	12S 22E 07CCD1	A0005133	140	SWI
BINGHAM & SONS	BINGHAM	MAX W	11S 22E S19 NENENW	11S 22E 19BAA1	A0005250	140	SWI
BRET ROBINS FARMS INC			11S 22E S22 SENESW	11S 22E 22CAD2	A0005103	140	SWI
BRUCE BEAN FARMS INC			12S 22E S4 NWNW	12S 22E 04BBC1	A0005129	140	SWI
BRUCE BEAN FARMS INC			12S 22E S4 NWSW	12S 22E 04CBC1	A0005130	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 22E S28 NWNWNW	11S 22E 28BBB1	A0005247	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 22E S33 SWSWSW	11S 22E 33CCC1	A0005252	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 22E S35 SWSWSE	11S 22E 35DCC1	A0005278	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 22E S36 NENWSE	11S 22E 36DBA1	A0005277	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 22E S36 SESWSE	11S 22E 36DCD1	A0005079	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 23E S30 NENENE	11S 23E 30AAA1	A0005081	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 23E S30 SESESE	11S 23E 30DDD1	A0005271	140	SWI

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Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			11S 23E S31 NWNWNE L1	11S 23E 31ABB1	A0005272	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			12S 22E S3 SWSWSE	12S 22E 03DCC1	A0005075	140	SWI
CHURCH OF JESUS CHRIST LATTER DAY SAINTS			12S 22E S4 SESW		A0002679	140	SWI
CIRCLE D FARMS	DUNCAN	PAUL H & KATHY F	09S 25E S26 NESENW	PUMP 1	A0005457	140	MVG
CIRCLE D FARMS	DUNCAN	PAUL H & KATHY F	09S 25E S27 NESESW	PUMP 4	A0005447	140	MVG
CIRCLE D FARMS	DUNCAN	PAUL H & KATHY F	09S 25E S29 NENWSE	ANDERSON	A0005383	140	MVG
CIRCLE D FARMS	DUNCAN	PAUL H & KATHY F	09S 25E S34 NESENW	PUMP 6	A0005480	140	MVG
CIRCLE D FARMS	DUNCAN	PAUL H & KATHY F	09S 25E S34 NWNE	PUMP 5	A0005477	140	MVG
CONRAD LAND & LIVESTOCK INC			11S 22E S17 NWNWSW	11S 22E 17CBB1	A0005224	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S14 SWSW	12S 21E 14CCB1	A0005115	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S15 NESE	12S 21E 15ACD2	A0005126	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S15 NWNE	12S 21E 15BDA1	A0005112	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S16 NWSWNE	12S 21E 16ABC1	A0005116	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S16 SWNE			140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S16 SWSW	12S 21E 16CCD1	A0006888	140	SWI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 21E S36 SENESE	12S 21E 36DDA1	A0006860	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S19 SWNWNW	12S 22E 19BBC1	A0006857	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S20 SENWNW	12S 22E 20BBD1	A0006850	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S20 SESW	12S 22E 20DCB2	A0006854	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S32 NWNWSW	BIG PIG PEN WELL(EASTPUMP	A0002818	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S32 NWSW	SMALL PIG PEN WELL(West)	A0002817	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	12S 22E S32 SESWNE	INDIVIDUAL WELL	A0002819	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	13S 21E S1 NENENE	13S 21E 01AAA1	A0006861	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	13S 22E S5 SWSWSW		A0013516	140	GCI
CRANNEY BROTHERS	CRANNEY	MICHAEL	13S 22E S9 SWSESE		A0008925	140	GCI
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S11 SWNWNW	13S 22E 11BBC1	A0006734	140	GCI
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S16 NENESW			140	GCI

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#### Irrigation Ground Water Diversions

(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S16 SWSESW		A0017702	140	GCI
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S16 SWSWSW		A0017703	140	GCI
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S16 SWSWSW			140	GCI
CRITCHFIELD FARMS	CRITCHFIELD	DAREN	13S 22E S2 NWSW	13S 22E 02CCB1	A0006732	140	GCI
CUMMINS FARMS INC			11S 21E S10 SWSWSW	11S 21E 10CCD1	A0005210	140	SWI
CUMMINS FARMS INC			11S 21E S15 NWNWNW	11S 21E 15BBA1	A0005211	140	SWI
CUMMINS FARMS INC			11S 21E S9 NWNWNE	11S 21E 09BAA2	A0005214	140	SWI
CUMMINS FARMS INC			11S 21E S9 SESESE	11S 21E 09DDD1	A0005212	140	SWI
CUMMINS FARMS INC	CUMMINS	MARK	11S 19E S28 SWSW	11S 19E 29DDD1	A0005021		SWI
CUMMINS FARMS INC	CUMMINS	MARK	11S 20E S31 SWSESE	11S 20E 31DDC1	A0006904	140	SWI
CUMMINS FARMS INC	CUMMINS	MARK	11S 20E S32 NENW	11S 20E 32BAD1	A0006917	140	SWI
CUMMINS FARMS INC	CUMMINS	MARK	11S 20E S32 SENESW	11S 20E 32CAD1	A0006920	140	SWI
CUMMINS FARMS INC	CUMMINS	MARK	12S 19E S3 SWNE	12S 19E 03DBB1	A0005014	140	SWI
CW4 LLC	WAYMENT	JED	11S 22E S32 SESWSE	11S 22E 32DCD1	A0005253	140	SWI
CW4 LLC	WAYMENT	JED	11S 22E S33 NWSWNW	11S 22E 33BCB1	A0005248	140	SWI
D & N RANCH LLC			13S 22E 35 NENESE	New well		140	140
D & N RANCH LLC			14S 22E S3 NENENE L1		A0002690	140	140
D & N RANCH LLC			14S 22E S3 SESENE		A0002689	140	140
DARRINGTON FARMS	DARRINGTON	ROBERT F	11S 24E S10 NWSWSE	IRRIGATION WELL	A0002851	140	140
DUTCHMEN MANUFACTURING INC	TRENT	FERRIN	10S 22E S29 SWSESE	SUPLEMENTAL WELL	A0002982	140	140
EAGLE CREEK AGLAND LTD PARTNERSHIP			10S 24E S13 NWNE	NORTH KELSEY FIELD 19	A0002900	140	140
EAGLE CREEK AGLAND LTD PARTNERSHIP			10S 24E S13 NWNWSE	SOUTH KELS Y # 20	A0002899	140	140
EAGLE CREEK AGLAND LTD PARTNERSHIP			10S 24E S24 NENE	WELL # 2 (HOUSE WELL)	A0002898	140	140
EAGLE CREEK AGLAND LTD PARTNERSHIP			10S 24E S24 NWNE	SCHULTS WELL#3(WEST WELL)	A0002816	140	140
EAGLE CREEK AGLAND LTD PARTNERSHIP			10S 25E S18 SESE	SHULTS WELL#1 (EAST WELL)	A0002897	140	140
ELQUIST RANCHES INC			13S 23E S5 SWNWSW			140	140
FARMLAND RESERVE INC			11S 21E S10 SENE	11S 21E 10ADD1		140	SWI
FARMLAND RESERVE INC			11S 21E S11 NENESE			140	SWI
FARMLAND RESERVE INC			11S 21E S11 SESENE	11S 21E 11ADD1	A0005215	140	SWI
FED AGRIBUSINESS LLC			11S 20E S33 NENE	11S 20E 28BAC1	A0006929	140	SWI

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Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
FED AGRIBUSINESS LLC			12S 20E S11 SESW	12S 20E 11CDC1	A0006936	140	SWI
FED AGRIBUSINESS LLC			12S 20E S13 NWNE	12S 20E 12DCC2	A0006940	140	SWI
FED AGRIBUSINESS LLC			12S 20E S13 SWSW		A0010008	140	140
H & S FARMS LTD PARTNERSHIP			13S 22E S15 NWSW	13S 22E 15CBD1	A0013515	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S16 SESESE		A0018504	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S16 SWSESE		A0018505	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S16 SWSWSE		A0017701	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S21 SESWSE		A0002683	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S22 SESENW		A0013514	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S27 SESENW		A0002682	140	GCI
H & S FARMS LTD PARTNERSHIP			13S 22E S27 SESENW			140	GCI
HEPWORTH FAMILY LIMITED PARTNERSHIP			11S 21E S25 NENE	11S 21E 25AAA1	A0005259	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			11S 21E S25 NESE	11S 21E 25DAD1	A0005260	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			11S 21E S25 NWSWNW	11S 21E 25BCB1	A0005267	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			11S 21E S26 SESE	11S 21E 26DDB1	A0005265	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 21E S12 NENE	12S 21E 12AAA1	A0005124	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 22E S20 SWSWSE	12S 22E 20DCC1	A0006853	140	GCI
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 22E S21 NWSWSW	12S 22E 21CCB2	A0006852	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 22E S21 SWSWNW	12S 22E 21BCC1	A0006851	140	SWI
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 22E S26 SWSWNW	12S 22E 26BCC1	A0006743	140	GCI

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Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
HEPWORTH FAMILY LIMITED PARTNERSHIP			12S 22E S27 SWSWNW	12S 22E 27BCC1	A0006741	140	GCI
HEPWORTH FAMILY LTD PARTNERSHIP			11S 21E S25 NWSWNW	11S 21E 25BCB2	A0005266	140	SWI
HEPWORTH FAMILY LTD PARTNERSHIP			12S 21E S1 SESE	12S 21E 01DDD2		140	SWI
HEPWORTH FAMILY LTD PARTNERSHIP			12S 21E S11 SENE	12S 21E 11ADD1	A0005135	140	SWI
HEPWORTH FAMILY LTD PARTNERSHIP			12S 21E S12 SENW			140	SWI
HEPWORTH FAMILY LTD PARTNERSHIP			12S 22E S33 SWSWNW			140	GCI
HEPWORTH FAMILY LTD PARTNERSHIP			12S 22E S34 SWSWNW			140	GCI
HOWARD R ADAMS & SONS INC			12S 21E S24 NWNWNE	12S 21E 24AAB1	A0006856	140	GCI
HOWARD R ADAMS & SONS INC			12S 22E S18 SESWNE	12S 22E 18ACD1	A0005300	140	SWI
HOWARD R ADAMS & SONS INC			12S 22E S8 SWSENW	12S 22E 08BCD1	A0005122	140	SWI
HOWARD R ADAMS & SONS INC			12S 22E S8 SWSESW	12S 22E 08CDC2	A0005100	140	SWI
HOWARD R ADAMS & SONS INC			12S 22E S8 SWSWSW	12S 22E 08CCC1	A0005299	140	SWI
HOWARD R ADAMS & SONS INC			12S 22E S9 NESW		D0043120		SWI
IDA GOLD FARMS	GERRATT	LARRY	11S 23E S3 SENESE	LARRY'S IRRIGATION WELL	A0002988	140	140
JOINT SCHOOL DISTRICT #151			10S 23E S20 SWSW	BURLEY JUNIOR HIGH WELL	A0002849	140	140
JOINT SCHOOL DISTRICT #151			10S 23E S30 NENE	BURLEY JR. HIGH WEST WELL	A0002844	140	140
JOINT SCHOOL DISTRICT #151			10S 23E S30 SENE	NEW BURLEY HIGH WELL	D0008514	140	140
JOINT SCHOOL DISTRICT #151			10S 23E S32 NENW	MOUNTAIN VIEW SCHOOL WELL	A0002848	140	140
JOINT SCHOOL DISTRICT #151			10S 24E S35 NWNW	DECLO JR.HIGH SCHOOL WELL	A0002846	140	140

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Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
K&D FARMS			13S 22E S11 SWSW	Large Well 500 HP	A0006736	140	GCI
K&D FARMS			13S 22E S15 SENW	100 HP Well	A0006737	140	GCI
K&D FARMS			13S 22E S15 SWNW	60 HP Well	A0006708	140	GCI
L RAY STANGER TRUST			11S 19E S14 NWSWNW	Watts	A0005055	140	SWI
L RAY STANGER TRUST			11S 19E S14 SENESE	McLean	A0005049	140	SWI
L RAY STANGER TRUST			11S 19E S14 SWSESW	Teater	A0005057	140	SWI
L RAY STANGER TRUST			11S 19E S15 SESENE	Big Sprinkler	A0005056	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 21E S25 SWSW	12S 21E 25CCC1	A0006864	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S11 SWNE	12S 22E 11ACC1	A0005076	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S12 SWNW	12S 22E 12BCC1	A0005087	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S18 SESE	12S 22E 18DDD1	A0006855	140	GCI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S25 NWSE	12S 22E 25ACC1	A0006746	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S26 SWSW	12S 22E 26CCC1	A0006745	140	GCI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S35 SWNW	12S 22E 35BCC2	A0006742	140	GCI
LAMBERT PRODUCE INC	KING	CORY	12S 22E S8 SWNWSW	12S 22E 08CBC1	A0005123	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S15 SWSW	12S 23E 15CCD1	A0006739	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S17 SWSWSW	12S 23E 17CCC1	A0006743	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S20 NWNE	12S 23E 20ABB1	A0006703	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S20 NWSE	12S 23E 20ACC1	A0006702	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S20 SENW		A0006702	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S22 NESW	12S 23E 22CAB1	A0006747	140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S22 SENESE			140	140
LAMBERT PRODUCE INC	KING	CORY	12S 23E S22 SWSWNE			140	SWI
LAMBERT PRODUCE INC	KING	CORY	12S 23E S26 SENWSE			140	140
LAMBERT PRODUCE INC	KING	CORY	12S 23E S8 NWNW	12S 23E 05CCC2	A0005090	140	SWI
LAMBERT PRODUCE INC	KING	CORY	13S 23E S4 NESW		A0017712	140	140
LAMBERT PRODUCE INC	KING	CORY	13S 23E S5 SESENE			140	140
LCS ENTERPRISES INC			12S 21E S25 SESESE	12S 21E 25DDD1	A0006863	140	GCI
LCSC ENTERPRISES LLC			12S 22E S11 NWSWSW	12S 22E 11CCB1	A0005099	140	SWI
LCSC ENTERPRISES LLC			12S 22E S11 SWSESW	12S 22E 11CDC1	A0005085	140	SWI
M AND G FARMS			12S 22E S1 SWSWSE	12S 22E 01DCC1	A0005077	140	SWI
MANNING RANCHES INC			13S 22E S33 NESESE		A0002691	140	GCI
MINIDOKA COUNTY HIGHWAY DISTRICT	GILLETE	ZANE	11S 23E S20 SWSESW	BURLEY IRRIG.OLD PARSONS	A0005071	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LABEL	11S 24E S11 NENW	INOUYE EAST WELL	A0002985	140	SWI

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## Attachment B

Irrigation Ground Water Diversions  
(Sorted by Owner Last Name, then Organization Name\*)

Owner Organization Name	Owner/Contact Last Name	Owner/Contact First Name	PLS Legal Description	Diversion Name	Metal Tag Number	Water District	Reporting District
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LAVEL	11S 24E S11 NWNW	INOUYE LITTLE WELL	A0002984	140	SWI
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LAVEL	11S 24E S14 NWNWSW	BRENT STOKER WELL #1	A0002778	140	SWI
MOO MOUNTAIN MILK INC	STOKER	LAVEL	11S 24E S14 SWNENW	INOUYE BIG WELL	A0002983	140	SWI
MOO MOUNTAIN MILK INC	STOKER	LAVEL	11S 24E S15 NENWNW	New Stoker Well		140	SWI
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LAVEL	11S 24E S16 SESE	WELL # 2 (NORTH WELL)	A0002776	140	SWI
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LAVEL	11S 24E S21 NENE	WELL # 4	A0002775	140	140
MOO MOUNTAIN MILK INC	STOKER	BRENT J AND / OR LAVEL	11S 24E S22 NWNW	WELL # 3 (EAST WELL)	A0002777	140	SWI
MOOVIEW COW PALACE	SEARLE	CRAIG & KELLY	11S 23E S32 NENESW	4th of July	A0005094	140	SWI
MOOVIEW COW PALACE	SEARLE	CRAIG & KELLY	11S 23E S32 NWSWNW	Pasture	A0005270	140	SWI
MOOVIEW COW PALACE	SEARLE	CRAIG & KELLY	11S 23E S32 SWNWNE	Shed	A0005092	140	SWI
MOOVIEW COW PALACE	SEARLE	CRAIG & KELLY	11S 23E S32 SWSWNW	New Well	A0005293	140	SWI
MOOVIEW COW PALACE	SEARLE	RAYMOND CLOYD KENT & CLIFFORD	11S 24E S28 NWSW	SPUD CELLAR WELL	A0002951	140	SWI
MOOVIEW COW PALACE	SEARLE	KENT & CLIFFORD	11S 24E S28 NWSWSW	Big Well	A0002950	140	SWI
MOOVIEW COW PALACE	SEARLE	KENT & CLIFFORD	11S 24E S30 NENESE	new well		140	SWI
MOOVIEW COW PALACE	SEARLE	RAYMOND CLOYD KENT & CLIFFORD	11S 24E S30 SESESE	ROY McBRIDE WELL	A0002947	140	SWI
MOOVIEW COW PALACE	SEARLE	KENT & CLIFFORD	11S 24E S32 SESESE	Gales	A0002948	140	SWI
OAK VALLEY LAND CO LLC	ARDEMA	MIKE	11S 21E S2 SESESE	11S 21E 02DDD1	A0005207	140	SWI
OAK VALLEY LAND CO LLC	ARDEMA	MIKE	11S 21E S23 SENESW			140	SWI
OAKLEY CANAL CO			14S 21E S34 SESWNW	Middle Trapper Well		140	140
OAKLEY CANAL CO			14S 21E S34 SWNENE	Lower Trapper Well		140	140
OAKLEY CANAL CO			15S 21E S5 SESENE	Upper Trapper East Well		140	140
OAKLEY CANAL CO			15S 21E S5 SESENE	Upper Trapper West Well		140	140
OAKLEY VALLEY FARMS			13S 22E S10 SWNESW	13S 22E 10CAC1	A0006709	140	GCI
OAKLEY VALLEY FARMS			13S 22E S8 SESENE		A0002673	140	GCI
OAKLEY VALLEY WATER CO			13S 22E S20 SWSWSW		A0002692	140	GCI
ORE-IDA FOODS INC			12S 23E S5 SWSW	12S 23E 05CCC1	A0005089	140	SWI
PICKETT RANCH & SHEEP CO			11S 22E S35 SWSW	11S 22E 35BCD1	A0005281	140	SWI

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PICKETT RANCH & SHEEP CO			11S 22E S35 SWSW		A0005279	140	SWI
PICKETT RANCH & SHEEP CO			11S 22E S35 SWSWSW	11S 22E 35CCC1	A0005280	140	SWI
PICKETT RANCH & SHEEP CO			12S 21E S4 NWSESE	12S 21E 04DDB1	A0005123	140	SWI
PICKETT RANCH & SHEEP CO			13S 22E S17 NWSWSE		A0017705	140	GCI
PICKETT RANCH & SHEEP CO			13S 22E S17 SWSWSE		A0017704	140	GCI
PICKETT RANCH & SHEEP CO			13S 22E S18 NENENE			140	GCI
PICKETT RANCH & SHEEP CO			13S 22E S20 NWSENW			140	GCI
PICKETT RANCH & SHEEP CO			13S 22E S7 SENESE		A0013517	140	GCI
PICKETT RANCH & SHEEP CO			13S 22E S7 SWNENE		A0013518	140	GCI
ROBINSON & WHITELEY LLC			14S 22E S5 NESENE		A0017714	140	GCI
ROLAND BEAN			11S 22E S27 SWNW	11S 22E 27BCB1	A0005283	140	SWI
SCHENK LAND & CATTLE LP			12S 21E S36 SWNE	12S 21E 36ACC1	A0006862	140	SWI
SCHENK LAND & CATTLE LP			13S 22E S5 SESWNE		A0013512	140	GCI
SCHENK LAND & CATTLE LP			13S 22E S8 SENENW		A0002671	140	GCI
SCHENK LAND & CATTLE LP			13S 22E S8 SWNESW		A0002672	140	GCI
SCHENK LAND & CATTLE LP			13S 22E S8 SWNESW		A0013513	140	GCI
SIX S RANCH LLC	MCCAMMON	PAT	11S 25E S11 NESWSW		A0017745	140	140
SIX S RANCH LLC	MCCAMMON	PAT	11S 25E S22 NWNWNE			140	140
SOLAR FARMS	SANDERSON	MARK	09S 25E S32 SENE		A0005461	140	MVG
TAJO LLC	TAYLOR	LYNN	10S 24E S12 SESWSE	SINGLE PIVOT WELL	A0002987	140	140
TAJO LLC	TAYLOR	LYNN	10S 24E S13 NWNENW	DOUBLE PIVOT WELL	A0002986	140	140
TAJO LLC	TAYLOR	LYNN	10S 25E S21 NENESE		A0017720	140	140
TAJO LLC	TAYLOR	LYNN	10S 25E S21 NWSENW		A0017751	140	140
THEAD J HANKS FAMILY TRUST	HANKS TTEE	MAE T	11S 22E S3 SWSWSW	11S 22E 03CCC1	A0005286	140	SWI
THIRD GENERATION LLC			11S 21E S11 SESESW	11S 21E 11CDD1	A0005218	140	SWI
TOLMAN & SONS INC			11S 19E S14 NWNWNE	11S 19E 14ABB1	A0005053	140	SWI
TOLMAN & SONS INC			11S 19E S14 NWNWNE	11S 19E 14ABB2	A0005054	140	SWI
TOLMAN & SONS INC			11S 19E S14 NWNWNE	11S 19E 14ABB3	A0005053	140	SWI
TRIPLE ACE INC	PATTERSON	RUSSELL	12S 21E S31 NESWNW L2	348		140	140
TRIPLE ACE INC	PATTERSON	RUSSELL	12S 21E S31 SENWSE	339	A0006877	140	140
TRIPLE ACE INC	PATTERSON	RUSSELL	12S 21E S31 SWSWNW L2	211		140	140
TRIPLE ACE INC	PATTERSON	RUSSELL	13S 21E S5 NWSW	216	A0006874	140	140
TRIPLE ACE INC	PATTERSON	RUSSELL	13S 21E S5 SWNW	215	A0006875	140	140
TRIPLE ACE INC	PATTERSON	RUSSELL	13S 21E S6 SENENE L1	214	A0006876	140	140

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(Sorted by Owner Last Name, then Organization Name\*)

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TRIPLE ACE INC	PATTERSON	RUSSELL	13S 21E S8 SENW	386	A0006872	140	140
TRIPLE C FARMS LLC			11S 21E S3 SENESE	11S 21E 03DDA1	A0005203	140	SWI
TUGAW RANCH	TUGAW	JOE	12S 19E S12 NWSESW	12S 19E 12CDB1	A0005005	140	SWI
TUGAW RANCH	TUGAW	JOE	12S 19E S24 NENWNW			140	140
TUGAW RANCH	TUGAW	JOE	12S 20E S10 SWSESE			140	140
TUGAW RANCH	TUGAW	JOE	12S 20E S23 SWSESE	205	A0006895	140	140
TUGAW RANCH	TUGAW	JOE	12S 20E S25 NWNW	207	A0006892	140	140
TUGAW RANCH	TUGAW	JOE	12S 20E S25 SWNW	208	A0006894	140	140
TURNER FARMS LLC	TURNER	DANNY	11S 24E S4 NENE	GUMMERSON WELL	A0002767	140	140
V & R FARMS PARTNERSHIP	GIBBY	VON	11S 24E S20 NESESE	V & R FARMS CANAL WELL	A0002990	140	SWI
V & R FARMS PARTNERSHIP	GIBBY	VON	11S 24E S20 SESE			140	140
V & R FARMS PARTNERSHIP	GIBBY	VON	11S 24E S27 NENESW		A0017724	140	140
V & R FARMS PARTNERSHIP	GIBBY	VON	11S 24E S29 NWSW	IRRIGATION WELL	A0002989	140	SWI
VAL ROBINS FARMS INC			11S 22E S22 SENESW	11S 22E 22CAD1	A0005082	140	SWI
VAN TASSELL FARMS	VAN TASSELL	RULON	12S 21E S21 NENESW	12S 21E 21CAA1	A0006882	140	SWI
VAN TASSELL FARMS	VAN TASSELL	RULON	12S 21E S21 NESW	12S 21E 21CAB1	A0006885	140	SWI
WATERSTREET FARMS			12S 22E S1 NWNWNE			140	SWI
WATERSTREET FARMS			12S 22E S10 SWSESW	12S 22E 10CDC1	A0005097	140	SWI
WATERSTREET FARMS			12S 22E S10 SWSWSW	12S 22E 10CCC1	A0005086	140	SWI
WATERSTREET FARMS			12S 22E S16 NENESW	12S 22E 16CAA1	A0005111	140	SWI
WATERSTREET FARMS			12S 22E S16 SWSWSW	12S 22E 16CCC1	A0006849	140	SWI
WATERSTREET FARMS			13S 22E S10 SWNWNE	13S 22E 10ABC1	A0006733	140	GCI
WAYMENT FARMS INC			11S 23E S26 NWSESW			140	SWI
WAYMENT FARMS INC			11S 23E S26 SWNWSW	11S 23E 26CCB1	A0005084	140	SWI
WAYMENT FARMS INC			11S 23E S28 SWSESW	11S 23E 28CDC1	A0005067	140	SWI
WAYMENT FARMS INC			11S 23E S29 SWSESE	11S 23E 29DDC1	A0005095	140	SWI
WAYMENT FARMS INC			11S 23E S35 SWSESW		A0005073		SWI
WEST SLOPE FARM INC			11S 22E S6 SESENE	350 HP	A0005233	140	SWI
WEST SLOPE FARM INC			12S 22E S10 SESWNE	12S 22E 10ACD1	A0005098	140	SWI
WEST SLOPE FARMS INC.			11S 22E S6 SESENW	400 HP	A0005234	140	SWI
WHITELEY BROTHERS LLC			12S 22E S33 SWSWSE		A0013511	140	GCI
WHITELEY BROTHERS LLC			12S 22E S33 SWSWSW		A0002675	140	GCI
WHITELEY BROTHERS LLC			13S 22E S3 NWSW	13S 22E 03BCC3	A0006730	140	GCI
WYBENGA DAIRY LLC			13S 22E S2 NWNWSW	Pump #214/250 HP	A0006731	140	GCI

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**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 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 pipes (which may also discharge into open channels).

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

**Open Channel**

**I. SURFACE WATER DIVERSIONS**

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 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:

- 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)
- acoustic Doppler flow meter (ADFM)

Construction and installation of these devices should follow published guidelines. References are available upon request.

**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 IDWR upon request.

## II. CLOSED CONDUIT MEASURING DEVICES

Closed conduit or pipe line diversions require installation of a flow meter. 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. Flow Meter Specifications

Currently there are two types of magnetic flow meters available. Full profile magnetic type flow meters are flanged into the piping system and measures across the velocity profile. Insertion type magnetic meters are installed through a small diameter hole in the piping system and attempt to measure the average velocity (determined by pipe diameter and insertion depth of sensor) in the flow profile. Small diameter (< 12" in diameter) pipes should be fitted with a full profile magnetic type meter due to higher accuracy and less straight pipe requirements for installation. Larger pipe diameters may use insertion type meters but must meet the standards for accuracy listed below. Insertion type magnetic meters will require larger straight distances of pipe to minimize turbulence above and below the measurement point.

Listed below are the flow meter requirements and specifications for full-flowing closed conduits or pipes. These specifications apply to all irrigation and non-irrigation water uses except domestic systems as defined in Section 42-111, Idaho Code. Water users may apply to IDWR for a variance to these specifications in accordance with Criteria for Request for Variance of measuring Device Requirements of Section II C. of this document

Meters shall be magnetic flow meters meeting the following minimum specifications:

- 1) Flow range of 0.1 to 33 feet per second (fps).
- 2) Listed manufacturer accuracy of  $\pm 2\%$  of flow rate from 0.1 to 33 feet per second (fps), with a repeatability of  $\pm 0.5\%$  of reading.
- 3) The register or display unit shall:
  - a) Have a waterproof and tamperproof seal.
  - b) Have an LCD backlit display showing instantaneous flow rate and totalized volume.
  - c) Have a minimum of six (6) digits for flow rate.
  - d) Have a minimum of eight (8) digits for totalized volume display or a sufficient number of digits so that "rolling over" will not occur within two years operation, based on the maximum rate of flow and annual volume elements of the authorizing water rights. For totalizing data, IDWR recommends using the attached guidelines (see Table 1) for proper meter (totalizing units) selection for the intended use.
  - e) Have password or similar protection of all settings and data to protect against unauthorized change or accidental loss of data.
  - f) Contain a back up battery (according to manufacturers specifications) to prevent loss of data in the case of primary power failure.
  - g) The display unit must contain user programmable features that allow the selection of flow units. Available flow units must include, but are not limited to, gallons per

minute (gpm) or cubic feet per second (cfs). The meter flow rate display must also allow decimal display formatting of up to three (3) places when using cubic feet per second units.

- h) The volume totalizer display must contain user programmable features that allow the selection of volumetric units that must include but are not limited to, total gallons or acre feet. The meter must also allow decimal display formatting of up to four (4) places, and the application of unit multipliers ranging from .0001 to 10,000. See Table 1 below for examples of appropriate meter multipliers based on expected annual volume use.

4) Signal Output when Data Logger is Required

*Data loggers are required only for magnetic flow meters installed as per conditions of approval for water right transfers in the Eastern Snake Plain Aquifer, or as may be required by specific water right conditions of approval in other locations.*

Scaled pulse frequency output (or pulse counting) is required for continuous recording of totalized volume data on data loggers. Output signals must be compatible with data logger inputs. Analog output signal for flow rate (usually 4-20mA) is also optional (most magnetic flow meters provide both analog and pulse frequency as standard output signals).

**B. Meter Installation and Diversion System Requirements**

Meters required under Section II A. above shall meet the following installation requirements:

- 1) The minimum and maximum system operating flows and pressures must be fully within the range of measurable flows and pressures identified in the meter specifications.
- 2) Pipes must be full flowing.
- 3) The installed flow rate accuracy of the installed magnetic flow meter must be  $\pm 5.0\%$  as compared to a second, standard flow meter. The installed flow rate accuracy for mechanical flow meters is  $\pm 10\%$  of rate of as compared to a second, standard flow meter.
- 4) Meters must be installed according to manufacturer's specifications. Most manufacturers' recommend that meters be installed a certain distance from turbulence-causing bends and fittings such as discharge heads, single elbows, and valves. Industry standards for such distances are listed below, but larger distances may be required if the turbulence is severe.
  - a. Full profile magnetic flow meters require three (3) pipe diameters upstream of the meter and two (2) downstream.
  - b. Insertion magnetic flow meters require (10) pipe diameters upstream of the meter and five (5) pipe diameters downstream.
- 5) Meter Certification: IDWR will certify the installed flow meter for accuracy using a second, standard flow meter. A location for measuring flow with a second standard meter must be provided as close to the installed meter as possible. A section of straight pipe with a minimum of 24 inches in length (for pipe diameters 16 inches and smaller) of unobstructed exposed pipe shall be provided for calibration purposes. The calibration section must be free of elbows, valves and other fittings, and must contain the same flows that are passing through the meter. The 24-inch certification section may be incorporated into the manufacturer's pipe requirements above or below the flow meter.

**Table 1: Use for proper meter selection based on water right volume.**

Volume Acre Feet (AF)	Multiplier X gallons (gal)	Multiplier X Acre Feet (AF)
0-150	1, 10, 100	.0001, .001
150-1000	10, 100, 1000	.001, .01
>1000	100, 1000	.001, .01

**C. Requests for Variance of Closed Conduit Measuring Device Requirements**

Owners of closed conduit diversions may request a variance of the standard magnetic flow meter requirements of section II A. above for the following reasons:

- a) An operable flow meter is already installed
- b) Installation and maintenance of the standard meter would be burdensome

If a meter is already installed, that meter may be used if the meter is field-tested by IDWR staff and/or the water district watermaster using a portable certified standard flow meter and upon a determination that the meter is installed properly and accurate to within  $\pm 10\%$  of actual rate of flow and volume. *IDWR or the water district watermaster should apply a calibration factor to flow meters whenever the calibration measurement is greater than  $\pm 1.0\%$ .*

If a user demonstrates that installation and maintenance of the standard meter would be burdensome, then IDWR may consider alternate measurement options including:

- a) Development of Power Consumption Coefficient to estimate water use volumes (generally acceptable for simple ground water irrigation diversion systems only)
- b) Installation of one or more time clocks or hour meters (requires periodic flow measurements and recording of hours of water use from meter or clock).
- c) Installation of an alternative flow meter as shown in Table 2 below. Alternative flow meters may vary with respect to straight pipe length requirements. Mechanical flow meters require ten (10) pipe diameters upstream of the meter and five (5) pipe diameters downstream.

Users considering making a variance request may contact IDWR or the local water master for further information.

**1. Use of Power Records as an Alternative Measurement Method**

An alternative to installing flow meters is the use of power records and other information to estimate the annual diversion from a pump. Estimating total water diversion from power records requires the derivation of a relationship between power demand and flow under normal operating conditions. This relationship, called a power consumption coefficient (PCC), is a ratio of the number of kilowatt hours needed to pump an acre-foot of water. This number is unique to each well or pumping plant due to the physical attributes of the system and can be applied to the year end power records to determine the total acre-feet pumped.

Total power consumption at individual irrigation pumping plants is supplied to the Department by electric utilities. To determine the rate of flow, a portable measuring device, such as a non-invasive ultrasonic flow meter 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.

Some complex systems cannot use this method due to the potential for large errors. See the discussion in the following section 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 three years.

## **2. 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 flow meter 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).

The total water diverted can be accurately estimated from the PCC method if the system configuration or operation is not complex. Unfortunately, the PCC or power records will not always yield acceptable results, and it will be necessary to install a flow meter. **Flow meters 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, re-lift pumps from surface water sources etc., a flow meter 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 as part of the well pumping system, the alternate method may be acceptable.

- The electrical 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 re-lift 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.
- 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 and/or other discharge points, would likely have flow rates that change considerably. These changes generally 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 that cause the flow to vary more than 25% (or pressures to vary more than 15%) over the irrigation season.

**Table 2: 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
Magnetic meters	small to large	Low. No moving parts to wear, high accuracy (full profile mags) in low velocity environments	Medium to high
Ultrasonic or Acoustic Doppler	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