



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

December 17, 2004

Minna and Conrad Casser
549 Croy Creek Road
P.O. Box 3073
Hailey, ID 83333

Re: Plan for metering device

Dear Mr. and Mrs. Casser,

IDWR staff has reviewed plans you submitted for the submerged orifice measuring device for your diversion from Croy Creek. This device is acceptable, subject to the following two modifications:

1. A staff gage or ruler is needed on both the upstream and downstream faces of the steel orifice plate, zeroed to the bottom of the orifice opening. This allows measurement of the head difference needed to calculate flow.
2. The orifice plate needs to be sealed so no water passes under or around the plate.

It is also recommended that the orifice opening be set as close as possible to the floor of the splitter box, without being affected by silt. This will allow for better flow during late summer when the water line is lower. The proposed size of the rectangular orifice opening is correct for the maximum flow rate (0.55 cfs) specified in your water right.

This letter should be considered as certification of approval that the proposed measuring device, as modified by the above two conditions, meets or exceeds IDWR standards. If you have further questions, call me at 208-287-4957.

Sincerely

Steve Burrell, P.E.
Water Distribution Section

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Department of Water Resources
Southern Region

c: IDWR – Twin Falls
Kevin Lakey, Watermaster – WD 37, Shoshone
2004 WD 37 file

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December 17, 2004

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

Mr. Greg Ferris
13 W. Carbonate
Hailey, ID 83333

Re: Plan for metering device

Dear Greg,

IDWR staff has reviewed plans you submitted for the submerged orifice measuring device for your diversion from Croy Creek. This device is acceptable, subject to the following two modifications:

1. A staff gage or ruler is needed on both the upstream and downstream faces of the steel orifice plate, zeroed to the bottom of the orifice opening. This allows measurement of the head difference needed to calculate flow.
2. The orifice plate needs to be sealed so no water passes under or around the plate.

It is also recommended that the orifice opening be set as close as possible to the floor of the splitter box, without being affected by silt. This will allow for better flow during late summer when the water line is lower. The proposed size of the rectangular orifice opening is correct for the maximum flow rate (0.43 cfs) specified in your water right.

This letter should be considered as certification of approval that the proposed measuring device, as modified by the above two conditions, meets or exceeds IDWR standards. If you have further questions, call me at 208-287-4957.

Sincerely

Steve Burrell, P.E.
Water Distribution Section

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