



State of Idaho  
DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Statehouse Mail, Boise, Idaho 83720-9000  
Phone: (208) 327-7900 FAX: (208) 327-7866

April 17, 1996

PHILIP E. BATT  
GOVERNOR

Charles Brockway  
Univ. of Idaho Research Center  
3793 North 3600 East  
Kimberly, ID 83341

KARL J. DREHER  
DIRECTOR

Re: 4/16/96 Measurements on Devil Creek

Dear Dr. Brockway:

Attached is a completed copy of our field discharge notes for the Devil Creek current meter measurement at the highway bridge. I computed the discharge as 6.87 cfs.

The weir located on the west fork channel is a sharp crested rectangular contracted weir with a length of 1.95 ft. I measured the head on this weir at 0.23 ft. Using the standard contracted weir formula, discharge = 0.70 cfs. This weir was almost identical to the one we looked at on the east fork channel. There was some leakage around one end of the weir upon our arrival but this was easily repaired by Mr. Brewer using a shovel and applying some mud around the abutment. The size of the weir pool looked acceptable but I advised Mr. Brewer to remove some sediment that had accumulated several feet behind the weir. Other than this sediment concern, the weir appeared to be acceptable. I will send photos as soon as possible.

You may also be interested in knowing that I checked the cross-cut canal weir near the landfill at about 12:15 p.m., just before we met at the highway bridge. My past notes indicate that this is a 5 foot length weir. The measured head on the weir, using the staff gauge installed on the weir, was 1.03 ft, which is a discharge of 16.7 cfs.

I plan to send a letter to Mr. Brewer soon which identifies a few of the weir construction and installation concerns which we discussed during our visit.

Sincerely,

A handwritten signature in black ink that reads "Tim Luke". The signature is written in a cursive style with a large initial 'T' and 'L'.  
Tim Luke

4-16-96

Drill Log

ARRIVE TO MAN, FOR LANT FILL WITH @ 4-16-96  
H = 1.03 FT, L = 5 FT Q = 16.7 cfs

WATER WAS NOT

McLaren Springs

25' W.P.

CRACKING IN THE 22' - 23'

SEVERE WINDS - WINDS & WINDS WINDS  
SOME WATER IN SOUTH SIDE

TOOK

TOOK AT THE END OF THE WELL

- OFFER TO BUY LENGTH WITHIN 24" ON BOTTOM & 24" ON TOP, THIS SHOWS A GOOD SECTION OF THE WELL. OTHER WIRE WAS TO CHECK & I AGREE TO REPLACE BUT MAINTAIN TO PREVENT FURTHER DAMAGE.

NO/H2O  
DRI OR  
H/16

had fill

W.P.

= GROUND WATER - INCLUDED EXHAUSTIVE - 24" FOOTING  
- SHOULD BE TAKEN FROM THE WELL & THE WINDS  
APPROXIMATELY 10' FROM THE TOP OF THE WELL  
THE WINDS AT THE BOTTOM OF THE WELL

SAMPLE AT THE END

A) END OF WELL - WATER IN THE WELL  
24" FOOTING - WATER IN THE WELL  
- WATER IN THE WELL - WATER IN THE WELL  
WATER IN THE WELL H = 0.44 FT Q = 1.70 cfs

B) WATER IN THE WELL - WATER IN THE WELL  
WATER IN THE WELL

C) WATER IN THE WELL - WATER IN THE WELL  
WATER IN THE WELL H = 0.22 FT Q = 0.70 cfs

D) WATER IN THE WELL - WATER IN THE WELL  
WATER IN THE WELL

13-782 500 SHEETS FILLER 5 SQUARE  
42-381 50 SHEETS EYE-EASE 5 SQUARE  
42-382 100 SHEETS EYE-EASE 5 SQUARE  
42-383 100 SHEETS EYE-EASE 5 SQUARE  
42-384 100 SHEETS EYE-EASE 5 SQUARE  
42-385 100 RECYCLED WHITE 5 SQUARE  
42-386 200 RECYCLED WHITE 5 SQUARE  
MADE IN U.S.A.



1.70 cfs

