



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

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August 20, 2008

C. L. "BUTCH" OTTER
Governor

DAVID R. TUTHILL, JR.
Director

RE: Warfield Hot Springs area monitoring plan

Dear Interested Party:

As you may be aware IDWR has agreed to conduct an evaluation of the impact, if any, of the SDRTR, LLC diversion on the Community Pipeline diversion. This agreement in part is based on complaints of interference made earlier this year.

IDWR has prepared the attached monitoring plan with a sketch for your review. IDWR requests your cooperation to complete this evaluation and specifically requests that all parties, their attorneys and/or consultants review this plan.

After review, IDWR requests that the parties identify any modifications to the plan they deem appropriate. IDWR requests the parties also identify the specific range of dates in September when this plan may be implemented within the range of dates identified in the plan. It is expected that Vierling &/or their attorney, Travis Thompson, will coordinate timing issues with all Community Pipeline users and respond for all Community Pipeline users regarding timing of the 24 hour period when the Community Pipeline can be shut down. It is expected that SDRTR, LLC &/or their attorney, James Speck will respond as to when they can shut their diversion down for 2 days then turn on their system and run it continuously for 24 hours.

IDWR requests responses be directed to Tim Luke by mail at the IDWR State Office, PO Box 83720, Boise, ID, 83720 or by e-mail to Tim.Luke@idwr.idaho.gov. Please provide Tim your response no later than September 2nd. (Note: I will be out of the office the first week of September so please contact Tim Luke directly.) As a courtesy, please provide copies of your responses to the other parties.

Once IDWR reviews the responses the parties will be contacted to be informed when the plan will be implemented.

As an alternative, if the parties can agree, the study may be contracted to a neutral or independent engineering consultant at the parties' expense.

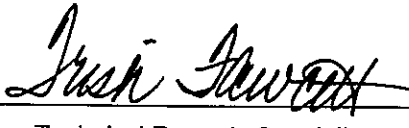
If you have questions, please feel free to contact Tim Luke or me.

Respectfully,

Allen Merritt, PE
Southern Region Manager

CERTIFICATE OF MAILING

I hereby certify that on the 20th day of August, 2008, a true and correct copy of the foregoing letter was forwarded with all required charges prepaid, by regular U.S. Mail, to the parties listed below:


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2016 N Washington St Suite 4
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MEMORANDUM

To: Allen Merritt

From: Tim Luke

Cc: Corbin Knowles

Date: August 14, 2008

Re: Proposed Monitoring Plan for Warfield Hot Springs

Listed below is an outline of a proposed plan for monitoring of the Warfield Hot Spring diversions. Please refer to my schematic and the photo figures from Jeff Cooper's 7/31/2008 memo attached.

Duration of monitoring: 24 hours.

Potential Dates: Weeks of September 8th, 15th, or 22nd. Will likely require staff to camp out onsite overnight. Staff will need at least an additional half day to set-up and test equipment. An additional several hours will be needed to remove equipment.

Staff: At least two staff. Possible staff = Corbin Knowles?, State Office; _____, Southern Region; anyone else interested (Mat Weaver, Dan Nelson, Tim L, someone else from Southern, 3-4 total ?)

Equipment required: 1 ultrasonic flow meter with transducers, 1 backup ultrasonic meter and transducers, 1 pressure transducer and data logger (backup transducer and logger available?), 2 12V batteries to run equipment (unless power is available using extension cords from nearby garage).

Procedures and Equipment:

- Assume that Robbins can divert/pump water for 24 hours. Additionally, require Robbins to shut off the system about two days in advance of the monitoring test so that conditions are stabilized. Staff will visit the site two days in advance to coordinate shutting the system down, read and record the Robbins magnetic flow meter totalizer, and make any other preparations for the field monitoring test.
- Coordinate with owners/users of community pipeline and assume that valve recently installed by Brockway Engineering near head of the pipeline (but below or downstream of the concrete standpipe) can be closed or shut off (refer to Figure 3 of attached 7/31/08 memo). With the valve closed, allow water in pipe to discharge through the outlet pipe on the mainline just above the valve. Water discharging from the outlet pipe will return to Warm Springs Creek. Closing the valve will shut off the water to all the users and cabins below but should maintain a steady or constant flow above the valve and discharge pipe. Utilizing the closed valve will hopefully provide for full flow in the pipe and allow IDWR to place an ultrasonic flow meter on the pipeline to monitor flow through the pipe.

The ultrasonic meter has a built in data logger that can record flow rate at intervals and cumulative volume discharge over the duration of the test. Ultrasonic meter will be powered using a fully charged 12v battery, which should be sufficient for a 24-hour test (alternative would be to use power from nearby garage building assuming power is available there).

- Assume there is full flow in the pipe by closing the valve. If full pipe flow is not possible, then a weir will need to be installed below the outlet discharge pipe. There is a small excavated channel below discharge outlet pipe that can probably accommodate a small portable weir or ramped broad crested flume. IDWR has several small weirs and broad crested flumes that could be used, but additional set-up time may be needed for installation of a weir or flume (but should be within the half-day required for set-up). Flumes have staff gages already mounted. If using a weir, staff will mount a staff gage on the weir. Staff will manually measure the head of the weir or flume and record discharge at 15 or 30 minute intervals, except for several hours at a time where staff may have dinner or sleep.
- Install a pressure transducer and data logger in the concrete standpipe at the head of the community pipeline (refer to Figure 2 in attached 7/31/08 memo). This will provide a continuous record of water level in the standpipe during the duration of the test. Power the data logger using a fully charged 12v battery, which should be sufficient for a 24-hour test. Alternatively, power may be provided directly to the logger and transducer
- Staff will calibrate the Robbins magnetic in-line flow meter during the ½ day set-up period (refer to Figure 4 in attached 7/31/08 memo). Staff will read and record pumped discharge through the Robbins pipeline and meter at 15 or 30 minute intervals, except for several hours at a time where staff may have dinner or sleep.
- Staff will summarize data and make a report within three weeks of the test.

Additional comments or potential monitoring:

- IDWR could install a second ultrasonic meter (with data logger) on the Robbins mainline so that there is a continuous record of flow in addition to use of the magnetic flow meter.
- A second pressure transducer may be installed to monitor water level in the Robbins sump box provided an additional transducer is available to the Department at the time of test, otherwise manual recordings of water level in the box every hour or 30 minutes can be made.

