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**From:** "Karla Knoop" <kknoop@jbrenv.com>
**To:** "'April Abate'" <aprilabate@utah.gov>, <OGMCOAL@utah.gov>
**CC:** "'Shaver, Dave'" <dshaver@coalsource.com>, "'Jim Smith'" <JIMDSMITH@utah...
**Date:** 2/5/2009 9:46 AM
**Subject:** RE: Centennial Water Monitoring Reports Q3/Q4 2008

April,

Thank you for your review and comments on these two quarterly sampling events. This email provides the additional requested data, and also provides a little more explanatory information on issues/questions that you raised.

Regarding the 3rd quarter 2008 report:

1) For the September 3, 2008 sample B-351, I apologize for leaving out the cation/anion information when I did the electronic data entry. It was calculated by the lab on September 12, and was reported on the lab sheet as follows: total anions 7.27 meq/L; total cations 7.25 meq/L; cation/anion balance -0.14 percent.

2) The flows that have previously been reported and sampled at Site 18-3 are comprised totally of mine discharge, which as you note, has recently ceased. As a result, the water quality changes and issues raised at that site are not likely to continue. Except when sampling coincides with a runoff event, this site will normally be dry from now on out. However, for future reference, the applicable TDS site-specific class 4 criteria for that stream reach is 1,700 mg/L.

Regarding the 4th quarter 2008 report:

1) I do not think that dissolved oxygen is on the required parameter list for the spring site S18-1. It is not on the "old" parameter list give on pages 7-6 and 7-7 MRP which applies to that site, nor is it on the "new" groundwater parameter list on page 7-4 of the MRP which currently applies to other springs, but which will apply once the revised monitoring plan is incorporated. If I have mis-interpreted the required parameters for this site, please direct me to the correct approved list so that I can be sure to comply with it in future quarters.

2) Regarding your comments on field water temperature and dissolved oxygen in Summit and Antone Creeks, I doubled-checked my field notes. The values I reported are correct, however there is a logical explanation for why temperature and dissolved oxygen differences at these two surface sites were so different, so I would not agree that these are "irregularities". Summit Creek was sampled much earlier in the morning than Antone Creek, it is situated topographically such that sun does not reach it r its upstream reaches early or for a prolonged period that time of year, and it had a much higher flow rate than Antone Creek. Antone Creek was sampled several hours later, at a location within and downstream of significant sun exposure, and its very low (2 gpm) flow rate more readily warms than does Summit Creek. Dissolved oxygen values, reported in mg/L (not in degrees C as indicated in your report), were consistent with the temperature and velocity measurements, i.e. higher DO in Summit Creek with its colder, faster-moving flow.

If you would like any additional information or clarifications on the above, please feel free to contact me. Also, we appreciate the Division's willingness to look further into the acidity reporting issue. As you know, our lab has recently been required to change its reporting methodology, which has resulted in the incompatibility with the Division's database entry system so the way that the data are currently being entered is a bit cumbersome!

Regards,

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From: April Abate [mailto:aprilabate@utah.gov]
Sent: Wednesday, February 04, 2009 1:09 PM
To: Dave Shaver
Cc: Karla Knoop; Jim Smith; Karl Houskeeper; OGMCOAL@utah.gov
Subject: Centennial Water Monitoring Reports Q3/Q4 2008

Hi Dave,
Here are your water monitoring reports for the 3rd and 4th quarters of 2008.
Please let me know if you have questions.
Are you still planning on submitting the finalized amendment to implement the new water monitoring plan?

April

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