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Sent: Wednesday, January 30, 2013 3:08 PM

To: Peppersack, Jeff

Cc: 'Donna Kelsey'; 'Ed Lawson'; 'Fritz Haemerle'; Charles E. Brockway; Spackman, Gary; Baxter, Garrick

Subject: RE: 37-8502 mitigation

Jeff,

Thank you for taking time yesterday and today to discuss the issues you raised below. Fritz also set me straight as to the baseline reservoir surface area of 13.13 acres, meaning that there are 1.33 acres, not 2.2 acres, of reduced reservoir area available to mitigate for the evaporation increase in the heated pond.

Relative to the on-site wind speed data issue, I made the evaluation two ways as we discussed: using the single year of on-site data directly and using a prediction or "correction" of the data using average monthly values from the Hailey station. Either way yields almost identical results. Maybe this gives us some degree of confidence...

I calculate that the available mitigation – evaporation on the 1.33 acres of reduced reservoir area – is 2.31 ac-ft/year. The increase in evaporation from the heated plunge & pond can be limited to less than this amount if the temperature in the pond is held constant at 62 degrees F – a few degree reduction from the original plan. Finally, it sounds like the Department may need to reduce the reservoir volume listed on water right 37-4369 accordingly as one piece of the mitigation plan. I explain in the plan narrative that because this is a "flow-through" facility, it seems to me that the storage volume is not really relevant because the only real consumptive loss from the system is due to evaporation. But I can understand if the Department feels that one of the actual components of the water right has to be adjusted.

Please let me know if this plan will suffice or we need to iron out any other issues.

Thanks,
Chuck

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