



Ogmcoal Dnr <[ogmcoal@utah.gov](mailto:ogmcoal@utah.gov)>

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**Re: Mel Coonrad**

1 message

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**Ingrid Campbell** <[ingridcampbell@utah.gov](mailto:ingridcampbell@utah.gov)>

Wed, Jun 5, 2013 at 9:10 AM

To: EIS Engineering <[eisec@preciscom.net](mailto:eisec@preciscom.net)>, Mindi Lundberg <[mindilundberg@preciscom.net](mailto:mindilundberg@preciscom.net)>, Ogmcoal Dnr <[ogmcoal@utah.gov](mailto:ogmcoal@utah.gov)>

Mr. Coonrod and Ms. Lundberg-

In addition to the requirements that I set forth in a previous email, macroinvertebrate sampling in Crandall creek should also include both a multi-habitat sample AND a targeted riffle sample at each site. More information on this can be found in previous reports completed by JBR environmental consultants. Please let me know if you have any question. Thank you!

I

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On Mon, Jun 3, 2013 at 10:28 AM, Ingrid Campbell <[ingridcampbell@utah.gov](mailto:ingridcampbell@utah.gov)> wrote:

Mr. Coonrod-

First, let me apologize for misspelling your name. We may have gotten off on the wrong foot regarding this macroinvertebrate issue. I hope we can get beyond that and work together to get the information that we need to move forward.

We do want to ensure that the studies that are being done are providing the information needed to support the mine and your client. At your request I have copied this email to Mindi Lundberg so that she can be aware of the requirements. We look forward to working with her.

In order for the Division to determine the health of Crandall Creek, we need to have specific studies and surveys completed. I am including below a short discussion of the things that are expected.

Please see the attached files as an example of appropriate methodology to use for the macroinvertebrate survey required for Crandall Creek. This is the methodology used by the Forest Service and is recommended by the Division as a best technology currently available. Several issues must be included in this year's survey in order for us to accept the report for the mine's annual monitoring commitment. These include the following:

~The sampling site locations must be recorded and must be the same sampling sites used by JBR in previous studies. These sites were selected by myself, Joe Helfrich of UDOGM, and Pam Jewkes of the Manti La Sal National Forest.

~Samples must be sent to certified lab for analysis. This is a standard practice and considered by the Division as a Best Technology Currently Available and should also be done for the consistency with previous reports.

~The species should be identified down to the species level and a discussion about the tolerance characteristics of the species presence should be included. Family level is not adequate for determining the impact of mine water discharge on the macroinvertebrate community.

~typical macroinvertebrate indices such as the ones calculated in previous JBR reports should be reported.

~An analysis between this year's results and previous years should be completed as a discussion in the report.

A report that is not comparable to previous reports or is insufficient to address the current macroinvertebrate population in the stream and the impact from mine water discharge cannot be accepted. If you have any questions, please don't hesitate to call.

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On Tue, May 21, 2013 at 10:29 AM, EIS Engineering <[eisec@preciscom.net](mailto:eisec@preciscom.net)> wrote:

Ms. Campbell,

EIS implemented a riparian study of Crandall Creek. The study was done as outlined in the Crandall Canyon Mine "Scope of Work" and in cooperation with the Manti LaSal National Forest and UDWR. Comments from "JBR" either indicate their apparent lack of knowledge or their animosity towards EIS.

It is important for you to understand the difference between a biotic community study (macro-invertebrates) and a riparian study. You may want to refer to "Fundamentals of Ecology" by Odum. In 1994 we were hired to evaluate the overall morphology of Crandall Creek; vegetation (obligate and facultative) soil primarily hydric, creek structure and a random sample of macro-invertebrates. In addition, we did a fishery inventory with UDWR.

The only reason I am involved, is Jay Marshall is an old and dear associate and friend of mine. However, if you doubt my qualifications with only 30+ years of experience, a BS degree in Zoology, a Master's degree with post-graduate studies in Ecology and several years of teaching experience at major universities, I will gladly turn this project over to Mindi Lundberg, a professional Biologist, with our firm. Her resume' is attached.

I would also like to know the qualifications of your staff who would review this report, at least as to what advanced degrees they hold and years of experience?

Please refer all future communication and correspondence to Mindi Lundberg, EIS Environmental & Engineering Consulting, [mindilundberg@preciscom.net](mailto:mindilundberg@preciscom.net).

By the way, the correct spelling is "Coonrod".

Thank you.

Mel Coonrod

President/Owner

EIS Environmental & Engineering Consulting

**From:** [ljuljgfdp.seh@xwdk.ljry](mailto:ljuljgfdp.seh@xwdk.ljry)  
**Sent:** [P r q q d | # P d | # 5 3 / # 5 3 4 6 # 5 = 3 : # S P](#)  
**To:** [hkhfc.suhf.vfrp.lghw](#)  
**Subject:** [P h d # F r r q u d g](#)

Hi Mr. Coonrod- Could you please take a look at the attachment? This is a page from the first macroinvertebrate report done by JBR that questions your study done in 1994. I would like to speak with you over the phone about this to ensure that the study will be done by a professional qualified to do macroinvertebrate studies and will have a more thorough analysis of macroinvertebrates to the species level and resolve the other deficiencies pointed out in the attachment. Please call me when you get a moment.

Thank you

Ingrid Campbell

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