

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Schwartzwalder 2Q 2021 Samples: Ra-228 reanalysis

Elizabeth Busby <ebusby@ensero.com>

Fri, Aug 13, 2021 at 12:36 PM

To: "Eschberger - DNR, Amy" <amy.eschberger@state.co.us>

Cc: Evan Valencia <evalencia@ensero.com>, Billy Ray <bray@ensero.com>

Hi Amy, Here is the letter from ACZ Labs.

Elizabeth Busby, PE, PMP

Senior Project Manager



131 E. Lincoln Ave., Suite 200

Fort Collins, CO 80524

P. 970-632-2240 | C. 970-222-0404

<https://www.ensero.com/> | ebusby@ensero.com**Ensero – Solutions for a better world.**

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**EnseroL66280-Ra288letter.pdf**
259K



✉ sales@acz.com
🌐 acz.com
☎ (800) 334-5493
📍 2773 Downhill Drive
Steamboat Springs,
CO 80487

August 12, 2021

Ensero Solutions
12150 E. Briarwood Ave., Suite 135
Centennial, CO 80112

To Ensero Solutions,

This letter is regarding the Radium-228 analysis requested on Ensero samples collected on 6/3/2021 and 6/4/2021 and logged into ACZ's Laboratory Information Management as project L66280 (eight samples total). These samples will be reported late due to required reanalysis after failing method-specific quality control parameters in its initial workgroup.

The original Radium-228 analysis for these samples was completed through the counting stage on the instrument, however, it failed one of the main quality control checks for this method. Yttrium and Barium are both used as carriers through a co-precipitation procedure used to create a purified extract that is counted in a low background gas proportional counter. These carriers are added to all samples to determine the amount of analyte (Radium-228) lost, if any, during the prep procedure. Like an internal standard, the recovery of the carriers is used to adjust the observed results. The preparation batches containing the aforementioned Ensero sample(s) had carrier recoveries outside of ACZ's acceptance limits, and the resulting data is deemed too deficient to report with qualification.

Our policy in this situation is to perform reanalysis, which has been started for this sample. Unfortunately, the Ra-228 method requires multiple days of labor and an ingrow period. To further complicate matters, the laboratory received an unusual amount of radiochemistry work in June and July of 2021, and this has impacted our ability to respond to quality control failures quickly. We are actively securing and re-allocating resources to improve this dynamic.

If desired, we can call or email your contact at the State of Colorado to explain the reasons for the delay in receiving your final report.

Please let me know if I can provide further details or any other assistance.

Best Regards,

A handwritten signature in blue ink, appearing to read "Matt Sowards", with a stylized flourish at the end.

Matt Sowards
Co-President

ACZ Laboratories, Inc.

Steamboat Springs, CO 80487

Work: (970) 879-6590 x531

Email: matts@acz.com

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Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Schwartzwalder 2Q 2021 Samples: Ra-228 reanalysis

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Wed, Aug 11, 2021 at 2:09 PM

To: Elizabeth Busby <ebusby@ensero.com>

Cc: Evan Valencia <evalencia@ensero.com>, Billy Ray <bray@ensero.com>

Hi Liz,

Thanks for letting me know about the expected delay. We would appreciate seeing some kind of documentation from the laboratory explaining the situation if they have offered to prepare such a document.

Amy Eschberger
Environmental Protection Specialist



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

I am working remotely and can be reached at 303-945-9014.

O: 303.866.3567 x 8129 | F: 303.832.8106 | C: 303.945.9014
1313 Sherman Street, Room 215, Denver, CO 80203
Amy.Eschberger@state.co.us | <https://drms.colorado.gov>

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Eschberger - DNR, Amy <amy.eschberger@state.co.us>

Schwartzwalder 2Q 2021 Samples: Ra-228 reanalysis

Elizabeth Busby <ebusby@ensero.com>

Wed, Aug 11, 2021 at 11:13 AM

To: "Amy Eschberger - CDRMS (amy.eschberger@state.co.us)" <amy.eschberger@state.co.us>

Cc: Evan Valencia <evalencia@ensero.com>, Billy Ray <bray@ensero.com>

Hi Amy,

Our subcontract laboratory ACZ is experiencing difficulties with tracer recovery for Radium – 228. As a result, they must re-analyze the second quarter samples for Schwartzwalder. Because of the long lead times associated with radiochemistry analysis we will not be able to report our second quarter samples by August 31. At this time, I expect that we will be able to report sample results by September 30. We are communicating with ACZ on a daily basis. If the schedule changes, I will let you know right away.

ACZ has offered to prepare letters to regulatory agencies explaining the situation (and resulting delay) in more technical detail. Please let me know if DRMS would like something like this for the project files.

Liz Busby

Elizabeth Busby, PE, PMP

Senior Project Manager



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