To: Sturges, Susan[Sturges.Susan@epa.gov]; Rodriguez, Dante[Rodriguez.Dante@epa.gov]
Cc: Freitas, Richard[Freitas.Richard@epa.gov]; McNaughton, Eugenia[McNaughton.Eugenia@epa.gov]
From: Dietrick McGinnis
Sent: Tue 1/3/2017 7:30:20 PM
Subject: RE: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

……
,,,,,,
Those will work but Selenium is important to get as low as we can. It would be best at 0.2 but we can bump it up to 0.5 if we have to…a lot of the historical data is 0.5 to 2 though and those levels can be important to our use of the data.

Dietrick

Dietrick McGinnis PhD PE CEM

McGinnis & Associates

65 Regency Way, Suite C, Reno, NV 89509

775.853.0449 p, 775.853.0243 f

McGinnisandAssociates.com

From: Sturges, Susan [mailto:Sturges.Susan@epa.gov]
Sent: Tuesday, January 03, 2017 11:01 AM
To: Rodriguez, Dante ; Dietrick McGinnis
Cc: Freitas, Richard ; McNaughton, Eugenia
Subject: FW: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Happy New Year.

Dante and Dietrick –

Checking in on a response regarding whether the metals CLP quantitation limits are acceptable that I shared last week from the CLP Analytical Services Branch. The CLP Inorganic Program Manager was on vacation and mentions below that we may have more success with CLP labs bidding on this Yerington/Anaconda Mine Modified Analysis if the selenium quantitation limit is not so low (0.2 mg/kg) and suggests bumping it up to 1 mg/kg (with an MDL of 0.5 mg/kg or lower). Let me know if you would like to use 1 mg/kg or if you would like to maintain 0.2 mg/kg and see if labs accept the bid.

As a summary, we are able to draft a CLP modified analysis for your metals with the following reporting limits:

- Be at 0.1 mg/kg,

- Se at 0.2 mg/kg (it's been done in the past and we can solicit for it, but ASB mentions below that they have had situations where CLP labs do not bid on MAs due to the low quantitation limit of 0.2 mg/kg. Headquarters recommends bumping up the quantitation limit to 1.0 mg/kg)

- Mo at 0.5 mg/kg, and

- U at 1.0 mg/kg.

- Thorium is likely not an issue if the CLP lab has the standards, so we can solicit for it (we can ask for 1.0 mg/kg since this is your preference).

- B at 5.0 mg/kg (Is this acceptable? Dietrick, your last email asked for 3.0 mg/kg).

Please let us know how you would like to proceed.

Eugenia, Rich, Dante, and Dietrick –

The CLP Inorganic Program Manager highly recommends including a PE sample (external QA sample) with this Yerington Anaconda CLP case since the metals analyses adds analytes (B, Mo, U, and Th) that are not included in the CLP Statement of Work. Is this something you would like to pursue for this sampling event?

Susan Sturges

Regional Sample Control Coordinator

U.S EPA Region 9 Laboratory

1337 S 46th Street, Bldg 201

Richmond, CA 94804-4600

Office: 510-412-2383

Email: sturges.susan@epa.gov

R9 Regional Sample Control Center: 510-412-2389
R9 RSCC email: R9RSCC@epa.gov

http://www.epa.gov/region9/lab/

From: Moody, Brett
Sent: Tuesday, January 03, 2017 5:47 AM
To: Sturges, Susan <Sturges.Susan@epa.gov>; Appleby, Charlie <Appleby.Charlie@epa.gov>
Subject: RE: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Hey Susan,

Happy New Year! In addition to what Charlie has stated below, after reviewing the list of quantitation limits, selenium is really low to the point where the solicitation may not get any quotes. I would like to propose increasing the CRQL of Se from 0.2 mg/kg to 1.0 mg/kg (this would mean that the labs would have an MDL of 0.5 mg/kg or lower). If you have enough time before sample collection, you could leave it at the current CRQL of 0.2 mg/kg and we could adjust it afterwards if no quotes were provided but that would take up to an extra week after initially receiving no quotes. Selenium has caused this issue a couple of times this past year; increasing the CRQL to 1.0 mg/kg will likely avoid it.

Please let ASB know if this is acceptable/not acceptable – along with the Boron modification.

Since this solicitation includes additional analytes not covered by the SOW (B, U, Mo, and Th), I would also highly recommend including a PE sample with this Case. This would be an excellent way to bolster the quality of the data. Charlie Appleby (current QATS COR) and I can assist with this if you're interested. It would be pretty easy though as we've done this before – the PE sample could be sent to R9 and included with the Field Samples (double blind) or QATS could send it directly to the lab (less hassle but the lab knows what it is). This would depend on how soon the samples are being collected and shipped but since the MA has not been approved yet by the Region (to my knowledge at least), I feel there is enough time. If you're interested in this, please let me know and I can help answer any and all questions.

Thanks so much,

Brett Moody

OLEM/OSRTI/TIFSD/Analytical Services Branch

CLP Inorganic Program Manager

Work: 703.603.9903/Cell: 571.289.8244

From: Sturges, Susan
Sent: Thursday, December 29, 2016 8:05 PM
To: Appleby, Charlie <Appleby.Charlie@epa.gov>
Cc: Moody, Brett <Moody.Brett@epa.gov>
Subject: RE: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Thanks, Charlie. I'll check with the project contact and get back to you.

Susan Sturges

Regional Sample Control Coordinator

U.S EPA Region 9 Laboratory

1337 S 46th Street, Bldg 201

Richmond, CA 94804-4600

Office: 510-412-2383

Email: sturges.susan@epa.gov

R9 Regional Sample Control Center: 510-412-2389
R9 RSCC email: R9RSCC@epa.gov

http://www.epa.gov/region9/lab/

From: Appleby, Charlie
Sent: Thursday, December 29, 2016 2:46 PM
To: Sturges, Susan <Sturges.Susan@epa.gov>
Cc: Moody, Brett <Moody.Brett@epa.gov>
Subject: RE: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Susan,

Please find the status of appropriate MAs for your project, below, and let me know what questions you have.

Charlie Appleby

Analytical Services Branch

OLEM/OSRTI/TIFSD

(703) 347-0266 (Potomac Yard)

(703) 405-0057 (Mobile)

(706) 355-8555 (Athens)

From: Mayo, Alfred N [mailto:Alfred.Mayo@csra.com]
Sent: Thursday, December 29, 2016 8:16 AM
To: Appleby, Charlie <Appleby.Charlie@epa.gov>; Jarosz, Margaret T <Margaret.Jarosz@csra.com>; Moody, Brett <Moody.Brett@epa.gov>
Cc: Perkins, Nazy M <Nazy.Perkins@csra.com>
Subject: RE: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Good Morning Charlie:

We have had modified analyses for Be at 0.1 mg/kg, Se at 0.2 mg/kg, and Mo at 0.5 mg/kg (MA 2535.1), as well as for U at 1.0 mg/kg (MA 2459.1). The lowest level I have found for Boron by ICP-MS so far is 5.0 mg/kg (MA 2570.0). Would this level be acceptable to the Region? The Boron MA does include the standard language to avoid the use of borosilicate glassware for sample preparation.

I have not yet located any previous MA's for Thorium. To the best of my knowledge, if a lab has the standards it should not be a problem to analyze.

Alfred Mayo

Senior Research Scientist

Mission-Enabling Technology Support

CSRA LLC

6361 Walker Lane, Alexandria, VA 22310

703-380-2082 |Alfred.Mayo@csra.com

www.csra.com

Enduring Values. Inspired Performance.

This electronic message transmission contains information from CSRA that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind CSRA to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Appleby, Charlie [mailto:Appleby.Charlie@epa.gov]
Sent: Wednesday, December 28, 2016 5:47 PM
To: Jarosz, Margaret T <Margaret.Jarosz@csra.com>; Moody, Brett <Moody.Brett@epa.gov>
Cc: Mayo, Alfred N <Alfred.Mayo@csra.com>
Subject: FW: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Margaret,

Please look at this request and give me some feedback vis-à-vis Susan's questions.

Thanks,

Charlie Appleby

Analytical Services Branch

OLEM/OSRTI/TIFSD

(703) 347-0266 (Potomac Yard)

(703) 405-0057 (Mobile)

(706) 355-8555 (Athens)

From: Sturges, Susan
Sent: Wednesday, December 28, 2016 5:16 PM
To: Moody, Brett <Moody.Brett@epa.gov>; Appleby, Charlie <Appleby.Charlie@epa.gov>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: Region 9 New Modified Analysis Request for ICP-MS - Anaconda Mine

Hi Brett (and Charlie – Brett has an out of office until Jan 3rd).

Region 9 has an upcoming Anaconda Mine Superfund analytical request (21 day TAT) for about 80 soils/sediments for metals analysis (ICP and ICP-MS) that will occur in sometime in January (dates not set yet).

Part of the request includes standard CRQLs for ICP-MS, with the following exceptions requiring a modified analysis:

1) Reduced quantitation limits for:

- Beryllium at 0.1 mg/kg

- Selenium at 0.2 mg/kg

2) Adding the following analytes:

- Boron at quantitation limit 3 mg/kg

- Molybdenum at quantitation limit 0.5 mg/kg

- Thorium at quantitation limit 1 mg/kg (1 is preferred, but 5 mg/kg falls in the lower end of expected results if 1 is not doable).

- Uranium at quantitation limit 1 mg/kg

Are these reduced quantitation limits and additional analytes available for ICP-MS through the CLP by a new MA? What is the likelihood of labs bidding on the request?

Thank you. Hope you're having a great holiday season!

Susan Sturges

Regional Sample Control Coordinator

U.S EPA Region 9 Laboratory

1337 S 46th Street, Bldg 201

Richmond, CA 94804-4600

Office: 510-412-2383

Email: sturges.susan@epa.gov

R9 Regional Sample Control Center: 510-412-2389
R9 RSCC email: R9RSCC@epa.gov

http://www.epa.gov/region9/lab/