HLWYM HEmails

From: Bret Leslie
Sent: Monday, April 28, 2003 6:21 PM
To: David Pickett
Subject: RE: FW: NWN - Nopal Weekly News

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as long as proper sample preservation is assured (acidified in the field) not a problem. no parent - daughter separation issues or anxieties are entailed.

yes okay to marton approach

20% by volume . . . i think but you can do a quick calculation of moles SO4 added to see how many mg BaSO4 you would get . . . i don't think it makes much of a difference.
bret

>>> David Pickett <dpickett@cnwra.swri.edu> 04/28/03 06:00PM >>>
Bret,

I've been getting stuff together for the Ra sampling. But I'm beginning to
wonder: If I get there and it somehow becomes apparent that I'll only be able to pull, say, two liters from a given well, what would be the disadvantage in simply filtering and bottling up those two liters, bringing them home, and then doing the barium sulfate ppt? (The two Mn-impregnated filters take up space comparable to about one liter of water.) Would that make it difficult to make assumptions about parent-daughter separation for decay calculations? Or isn't there uncertainty there from the Mn filtering, anyway?

For Mn dissolution and BaSO4 precip, I am choosing to follow the "R. Marton Thesis" procedure, rather than Luo et al. (GCA, 2000) - because the former has all the steps and because the latter also includes treatment for other radionuclides. OK?

Do you remember: is the "20% H2SO4" by volume or weight? I'm so rusty that I can't remember what I would have assumed.

David

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"David Pickett" <dpickett@cnwra.swri.edu>
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