

T6/1.2

From: Doug Henderson
To: Ken Ludwa
Date: Thu, Aug 13, 1998 5:33 PM
Subject: Re: questions regarding metals/tox sampling

Ken,

For the bioassays, we will need 1 gallon (4 liters). For the metals, we will need 2 liters, 1 for dissolved and 1 for total recoverable.

Ideally, the samples would be filtered on site. However, I don't think that that is necessary for this investigation. Also, when sampling for permit purposes, the sampler needs to be chilled while it is sampling. Again, I do not think this will be necessary for what we are doing.

Acid-washing is fine for the metals, but for bioassays, there is a specific procedure for cleaning glassware (i.e., soap, rinse, acid, rinse, acetone, rinse, d.i. rinse). If there is the potential for previous contamination in the sample bottle (in the autosampler), we might want to clean it here at the lab. If, on the other hand, it has only used for these samples, then an acid-rinse will probably work for our purposes.

As to your fourth question, I don't know of any special procedures other than

- 1) wear non-talc gloves
- 2) don't spill it
- 3) don't breath on it
- 4) don't contaminate it!

If it's difficult to pour into the sample bottles, feel free to bring it back to the lab. Please remember to chill the sample as soon as you can.

I hope this answers your questions. Let me know if you need anything else.

Doug

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>>> Ken Ludwa 08/11 8:28 AM >>>

For the Port of Seattle tox/metals sampling, I might use one of the Port's autosamplers to do a series of grabs during the next storm. The autosampler will be set to grab a series of equal volumes at regular time intervals once the storm starts (not doing flow-weighted composites). It will keep the samples in one large sample container. Before I do this, I have a few questions:

1. What total sample volume is required for the metals test and the tox testing?
2. How soon does the sample need to be filtered (since we're doing dissolved metals)? Once the autosampler kicks in, the sample will sit in the sample bottle for awhile, unchilled, until I can get to it. This may be a few hours. Is that OK, considering the rough nature of what we're doing?
3. Does the sample bottle in the autosampler have to be prepared in any certain way? I'm pretty sure they acid-wash their sample bottles.

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4. Any special procedures for transferring the sample from the large bottle to the tox and metals sample bottles, or should I just bring back the big bottle from the autosampler and let the folks in the lab do it?

I'd appreciate a reply by Thursday if possible, so we can get the samplers set up as soon as possible. In the meantime, I can count on doing simple grab samples as a backup, but the composited samples seem like a better representation of what we're trying to get.

Thanks!
Ken

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