To: Zell, Christopher[zell.christopher@epa.gov]; Mann, Laurie[mann.laurie@epa.gov]
From: Kolosseus, Andrew (ECY)
Sent: Mon 8/1/2016 3:31:47 PM
Subject: RE: TMDLs

Chris and Laurie:

Here's my annotated list; I added items in underline

- Assess bacteria translator approach, and propose alternative if needed.

- Identify what resources we can invest into developing TMDLs for tribs (Ayer, Huckleberry, etc.) that do not have TMDLs developed for them {Andrew's note that this is probably a high workload given the benefit}.

- Discuss with our permits group the implications of the TMDL having a zero WLA for fine sediment.

- Review the Budd Inlet proposal.

Talking timelines post-NWEA discussion sounds good.

Andrew

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From: Zell, Christopher [mailto:zell.christopher@epa.gov]
Sent: Friday, July 29, 2016 7:33 AM
To: Kolosseus, Andrew (ECY) <AKOL461@ECY.WA.GOV>; Mann, Laurie <mann.laurie@epa.gov>
Subject: RE: TMDLs

Hi Andrew,

You raise a good question regarding timelines. I was kinda thinking that we talked about assessing timelines and horizon following our discussion with NWEA?

In my notes I see we have the following action / homework items:

- Assess bacteria translator approach;
- Identify what resources we can invest into developing TMDLs for tribs (Ayer, Huckleberry, etc.) that do not have TMDLs developed for them; and
- Discuss with our permits group the implications of the TMDL having a zero WLA for fine sediment.

Could you confirm that I recall these items correctly – and if not – elaborate as needed?

Thank you,

Chris

From: Kolosseus, Andrew (ECY) [mailto:AKOL461@ECY.WA.GOV]

Sent: Thursday, July 28, 2016 3:13 PM
To: Zell, Christopher <zell.christopher@epa.gov>; Mann, Laurie <mann.laurie@epa.gov>
Subject: RE: TMDLs

Sounds good. As you know, I'd like to make sure we keep this moving. We didn't get a chance to talk about expectations around our timelines. By my count, there are four items from Tuesday's meeting with an EPA "to do" on them – what's your timeline for getting those done?

I sent the question to our permitting staff. Once I get an answer there, I think my three to-do's are done.

Andrew

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From: Zell, Christopher [mailto:zell.christopher@epa.gov]
Sent: Wednesday, July 27, 2016 9:33 AM
To: Kolosseus, Andrew (ECY) <AKOL461@ECY.WA.GOV>; Mann, Laurie <mann.laurie@epa.gov>
Subject: RE: TMDLs

Good Morning Andrew,

Thank you for finding time to meet with us yesterday. I agree that our discussion was productive

and… what a great meeting atmosphere! Warblers, sparrows, sunshine…the only element missing was the beach ☺.

Thanks in advance for your patience as we review your proposal. I am thinking we may have follow-up question(s) etc.

Laurie, I look forward to your thoughts!

Have a good day,

Chris

From: Kolosseus, Andrew (ECY) [mailto:AKOL461@ECY.WA.GOV]
Sent: Tuesday, July 26, 2016 6:07 PM
To: Mann, Laurie <mann.laurie@epa.gov>; Zell, Christopher <zell.christopher@epa.gov>
Subject: TMDLs

Laurie and Chris:

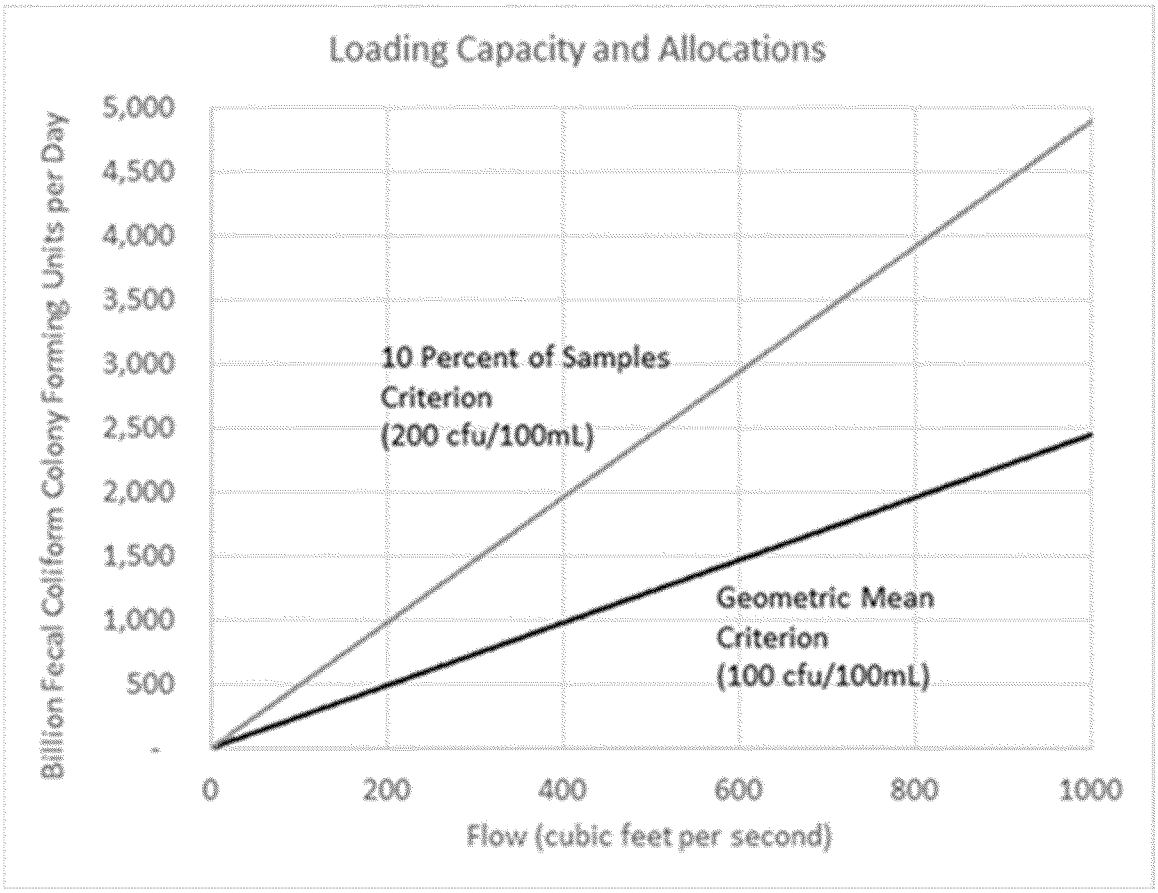
Thanks for the productive meeting today. While I do hope to have these conversation much earlier in the process next time, I am glad we were able to productively address many issues. Attached are two documents – take a look at our 2014 plan to phase the TMDLs (I looked and Jo H. was the EPA person at this point) and our approach from last week's advisory group meeting on what phase 2 was actually going to cover (this had always been unclear).

I'm thinking something like this:

Ecology submitted a TMDL for the Deschutes River (above the Deschutes Falls), Percival Creek, and tributaries to Budd Inlet for temperature, fecal coliform, fine sediments, dissolved oxygen, and pH. These creeks and rivers flow into Capitol Lake and Budd Inlet. They cause

some of the impairments for phosphorus, dissolved oxygen, and/or bacteria in Capitol Lake and Budd Inlet. Ecology is currently preparing a TMDL for dissolved oxygen in Budd Inlet. If the Deschutes TMDL, the future Budd Inlet TMDL, or other actions do not completely correct the remaining problems in Capitol Lake and Budd Inlet, Ecology will prepare another TMDL. If these TMDLs are not approved by EPA by {DATE}, EPA will prepare TMDLs for these waterbodies.

Generally speaking, perhaps it would be helpful in TMDLs to include a 'universal translator' when discussion CFUs/day versus concentration. Anyone can take the concentration provided in the TMDL along with their instantenous flow at the creek/river/outlet to calculate the maximum daily load in CFUs per day. Something like: "The TMDL calculates loading capacity and allocations in concentration units. To convert to the number of colony forming units (CFUs) per day, simply use the flow and Figure 1. For example, the 7Q10 in XXXX River is XX CFU at XX location, so the load capacity is XXX CFUs per day."



Thoughts?

Andrew

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