To: CN=Erin Foresman/OU=R9/O=USEPA/C=US@EPA[]
Cc: CN=Karen Schwinn/OU=R9/O=USEPA/C=US@EPA;CN=Sam Ziegler/OU=R9/O=USEPA/C=US@EPA;CN=Tim Vendlinski/OU=R9/O=USEPA/C=US@EPA[]; N=Sam Ziegler/OU=R9/O=USEPA/C=US@EPA;CN=Tim Vendlinski/OU=R9/O=USEPA/C=US@EPA[]; N=Tim Vendlinski/OU=R9/O=USEPA/C=US@EPA[]
From: CN=Valentina Cabrera-Stagno/OU=R9/O=USEPA/C=US
Sent: Thur 12/20/2012 2:20:27 AM
Subject: Re: 4b & c
http://www.epa.gov/region09/water/watershed/index.html
(embedded image)

good call on these attachments Erin.

And Karen, I agree with you - Rainer's description implies a greater power for 4c than exists. 4c does great things for shedding light on issues but does not generate any change in and of itself. A mechanism is still needed.

--Valentina

Valentina Cabrera Stagno
Environmental Scientist
US EPA Region IX
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ph: 415.972.3434

From: Erin Foresman/R9/USEPA/US
To: Karen Schwinn/R9/USEPA/US@EPA
Cc: Sam Ziegler/R9/USEPA/US@EPA, Bruce Herbold/R9/USEPA/US@EPA, John Kemmerer/R9/USEPA/US@EPA, Tim Vendlinski/R9/USEPA/US@EPA, Tom Hagler/R9/USEPA/US@EPA, Valentina Cabrera-Stagno/R9/USEPA/US@EPA
Date: 12/19/2012 10:28 AM
Subject: Re: 4b & c

Hi All,

Here are two more references that are worthwhile reads.

Comment letter received in response to the SF Bay Delta Estuary Water Quality ANPR
http://www.epa.gov/sfbay-delta/pdfs/comments/EPA-R09-OW-2010-0976-0025-1.pdf

SWRCB internal description of 303(d) listing for insufficient flows causing beneficial use impairments

[attachment "Draft RevisedFlowAssessment4-13.docx" deleted by Valentina Cabrera-Stagno/R9/USEPA/US]

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http://www.epa.gov/sfbaydelta

I work a part time schedule (M 7:30a - 4:00p, T - F 7:30 - 2:00p)

From: Karen Schwinn/R9/USEPA/US
To: Sam Ziegler/R9/USEPA/US@EPA,
Cc: Bruce Herbold/R9/USEPA/US@EPA, Erin Foresman/R9/USEPA/US@EPA, John Kemmerer/R9/USEPA/US@EPA, Tim Vendlinski/R9/USEPA/US@EPA, Tom Hagler/R9/USEPA/US@EPA, Valentina Cabrera-Stagno/R9/USEPA/US@EPA
Date: 12/18/2012 03:06 PM
Subject: Re: 4b & c

I'm glad to see this paper by I'm not getting Rainier' point about the list being a "tool... to incentivize co-equall goals". We agree that we ought to look at impairments more broadly, and put them on the appropriate list. (That's what we said in Action Plan.) But there still needs to be an implementation mechanism. If not water rights permits, what could correct these impairments? Am I missing something that Rainier is suggesting?

~~~~~~~~~~~~~~~~~~~~~~~
KAREN SCHWINN
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From: Sam Ziegler/R9/USEPA/US
To: Valentina Cabrera-Stagno/R9/USEPA/US@EPA, Karen Schwinn/R9/USEPA/US, Erin Foresman/R9/USEPA/US, Tom Hagler/R9/USEPA/US@EPA, Tim Vendlinski/R9/USEPA/US@EPA, Bruce Herbold/R9/USEPA/US
Cc: John Kemmerer/R9/USEPA/US@EPA
Date: 12/18/2012 02:47 PM
Subject: 4b & c

Attached is a 2007 paper that Rainer Hoenicke, SFEI sent me recently on 4b & C which may be of interest in light of our discussion regarding listing the delta as impaired because of decreased freshwater flows.

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See Region 9 watershed priorities at http://www.epa.gov/region09/water/watershed/index.html

----- Forwarded by Sam Ziegler/R9/USEPA/US on 12/18/2012 02:36 PM -----

From: Rainer Hoenicke <rainer@sfei.org>
To: Bruce Herbold/R9/USEPA/US@EPA, Sam Ziegler/R9/USEPA/US@EPA,
Date: 11/09/2012 10:34 AM
Subject:

Bruce and Sam -

In my recent research, I ran across this paper by Eric Monschein and Laurie Mann (Office of Water and Region 10, respectively) that caused me to wonder why nobody considered Category 4c Waters in the ANPR. You may be interested in taking a look at page 2 in the attached paper: "Category 4c: The non-attainment of any applicable WQS for the waterbody is the result of pollution and is not caused by a pollutant. Examples of circumstances where an impaired segment may be placed in Category 4c include waterbodies impaired solely by lack of adequate flow or by stream channelization."

Could this be an additional tool outside the State's water rights process that could incentivize the efforts to achieve the co-equal goals in the Delta (and elsewhere, for that matter)?

Aside from the Delta flow issues, I am running into many sediment impairment listings where anthropogenic causes of excess fine sediment or a fine-to-coarse imbalance lie within the channel itself, rather than land-based inputs via hillslope erosion. So, I am thinking that if measures related to land-based BMPs in TMDL implementation plans don't get at the whole picture, Category 4c may be an additional avenue to address restoration of aquatic life uses, while at the same time enhancing water supply reliability by restoring ground water elevations and the watershed "sponge effect" lost due to channelization and major changes to annual hydrographs that climate change effects even 100 years from now can't even come close to. Any thoughts?

Rainer

*****
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[attachment "Category 4b Waters - CWA Section 303(d).pdf" deleted by Erin Foresman/R9/USEPA/US]