From:	William H Orem
To:	Axelrad, Don
Cc:	gilmourc@si.edu
Subject:	RE: FW: Sulfide method
Date:	Wednesday, January 07, 2009 3:37:29 PM
Attachments:	EPA Red Book SULFIDE 1976.pdf EPA Gold Book SULFIDE 1986.pdf

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Don:

Certainly we have observed total sulfide in surface water at some sites at levels >2ppb. Total dissolved sulfide levels of 10s of ppb have been observed at F1 and a few other sites in northern WCA 2 and WCA 3. Free sulfide at the neutral to slightly acidic pH conditions of the Everglades would likely exceed the 2 ppb criteria at some of the sites. I'm not sure if this was in the SFER sulfur Appendix or not, I'd have to look. You can sometimes smell the sulfide in surface water samples from some sites. It is probably worth a mention in the sulfur paper.

Bill

"Axelrad, Don" <Don.Axelrad@dep.state.fl.us>

01/07/2009 03:08 PM

To "William H Orem" <borem@usgs.gov>, <gilmourc@si.edu>
cc
Subject RE: FW: Sulfide method

Bill and Cindy,

Thanks for the total sulfide analytical methods education. I will not try to draw any conclusions from the R-EMAP total S^{-2} data.

From FDEP's perspective, the fact that USEPA has a (very old) H2S criterion (see attached) is important, if the northern 'glades exceeds that number.

Have we published all the S^{-2} data you two have?

Do we have 'glades surface water numbers that when pH and temp adjusted would be above 2 ppb H2S?

Would this stuff be useful in the paper Bill?

Don

Donald M. Axelrad, Ph.D.

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From: William H Orem [mailto:borem@usgs.gov]
Sent: Wednesday, January 07, 2009 2:56 PM
To: Gilmour, Cindy
Cc: Axelrad, Don; David P Krabbenhoft; Kalla.Peter@epamail.epa.gov; G. Ronnie Best; scheidt.dan@epamail.epa.gov; wlanding@fsu.edu
Subject: RE: FW: Sulfide method

All:

Just as a follow up to Cindy's observations, all of our sulfide analyses are conducted on filtered samples.

Bill