From:	Robert Whittier
To:	Nancy Rumrill/R9/USEPA/US@EPA
Subject:	Lahaina Fluorometry
Date:	09/30/2011 05:04 PM
Attachments:	fluorescence summary 24 sept.pdf

Nancy,

Attached is pdf graph summary for the Lahaina fluorometry. I added running average graphs for sampling location. Also added running average (7 point moving average) of all sampling locations on a single graph (pretty messy) and selected seeps on another (less messy). Any dye in the grab samples should be diluted by seawater compared to the seep samples. So for the first pass analysis I am assuming that the grab samples are more representative of background. Based on that, some observations:

1. The sulpha rhodamine b in the seep samples tracks pretty closely with the grab samples.
2. Somewhere about the 1st week in September the fluorescein seep numbers start tracking a little above the grab samples.
3. The only caveat is that during July the seeps also were elevated compared to the grab samples.
4. By comparing the seep to the grab samples, variations due to instrument noise, cuvette optical differences, and temperature fluctuations (at the time of analysis) will be minimized.
5. The running average for seep 6 seems to show a slowly increasing trend.

All of this is still in noise range, so still no difinitive indication of dye.
So looking forward to the next data delivery,
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Robert B. Whittier
University of Hawaii
Department of Geology and Geophysics
1680 East West Road, POST 701
Honolulu, Hi 96822

Ph: (808)956-4777 Fax: (808)956-5512
Cell: (808)387-4869