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DEPARTMENT OF ECOLOGY
SOUTHWEST REGIONAL OFFICE

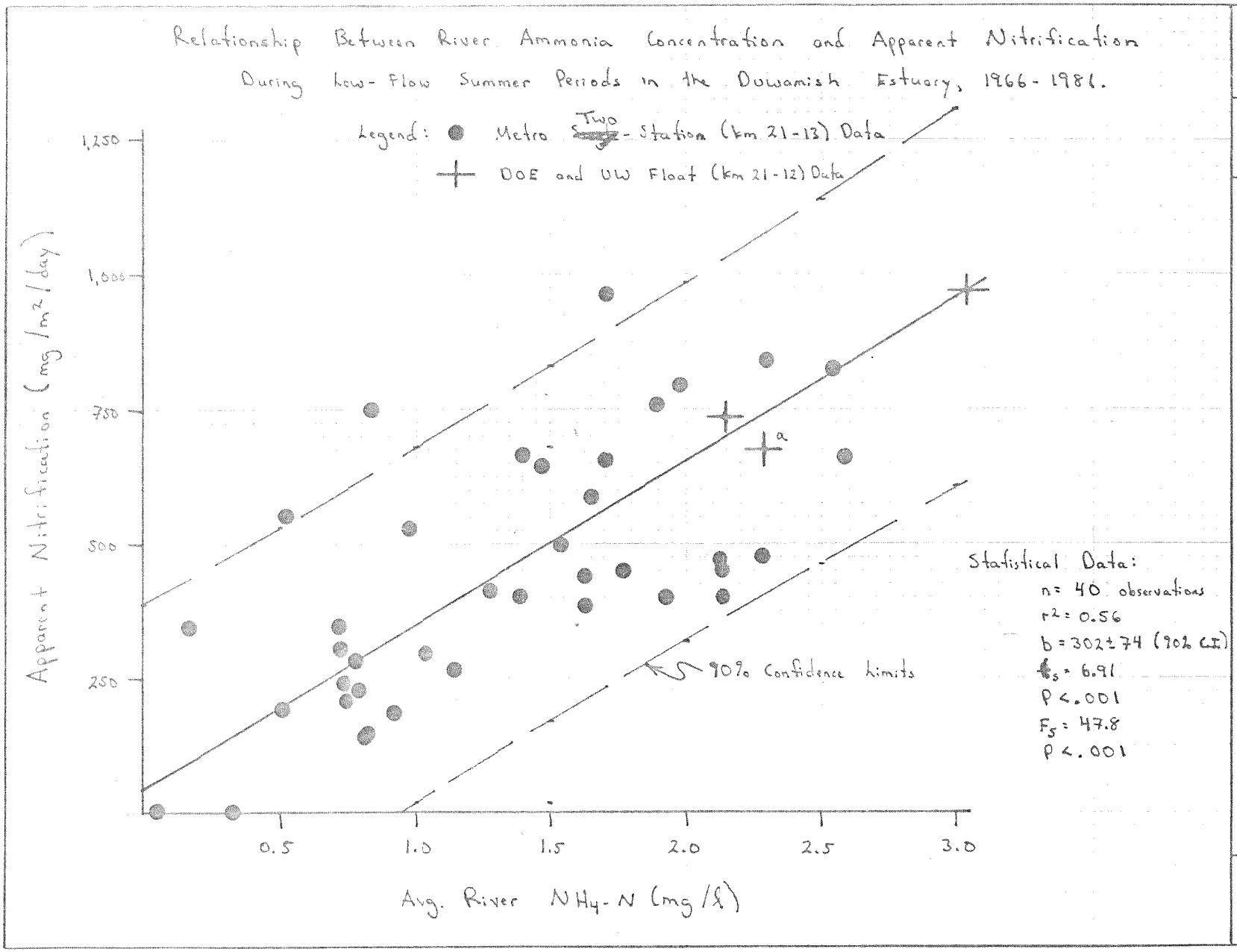
Bill:

I thought I'd pass on to you [illegible] the continuing Renton plant / Duwamish nitrification saga. I've put together data from Metro's routine monitoring programs, [illegible] (assuming a single dose) to East Marginal Way. All stations (upstream, km 21; effluent; and [illegible], km 13) were [illegible] river and [illegible] flows. I've also [illegible] all observations for the June-September period, [illegible] flows less than 15 m^3/s (530 cfs), and [illegible] no substantial [illegible] was [illegible] at East Marginal Way. [illegible] the average of the [illegible] (predicted [illegible]) and the [illegible] concentration at km 13. [illegible] data. Results from your two float trips and Wally's one were also developed for the same reach.

All this [illegible] is presented in the accompanying graph. I think the data support your assumption of a first-order [illegible] rate, with no [illegible] that the [illegible] are presently "saturated" with NH4. Your model therefore appears, to me at least, to be appropriate for [illegible] predictions in the river, though perhaps [illegible] (i.e. suspended [illegible]). Let me [illegible] your [illegible] this - I'm planning to [illegible] it in a journal article I'd like to write on the [illegible]. Also, note that [illegible] that I've based the river ammonia level on a single [illegible] appears to have been quite transient - do you agree? Take care -

[illegible]

Cy PATMONT



a.) 9/23/80 float, river NH4-N based on a single effluent dose (i.e. not a triple-dose dilution block observed transiently near the effluent diffuser; Berkhardt, 1981 and Yake, 1981)

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