



"Rigassio-Smith, Anita"
 <Anita.Rigassio-Smith@jacob
 s.com>

04/18/2008 11:50 AM

To Dave Dickerson/R1/USEPA/US@EPA

cc

bcc

Subject cy to cy info

Hi Dave,

I'm sending this information to you separately in case there was some problem with the multiple addressee e-mail I sent earlier with attachment.

I believe the information in the attached table will answer your question. We looked at the overall volumes dredged and number of filter cake drops each dredge season to derive a ratio of filter cake volume (as generated on the press) to in-situ sediment volume.

We averaged the last three years to come up with a ratio of 0.54 cy of filter cake per 1 cy dredged sediment. We did not use the first year of dredging in the average since we felt the material was not representative of the in-situ river sediment.

The density will be lower if the filter cake is handled (loaded, moved, etc.) and the ratio would be higher.

Call or e-mail if you have any questions.

Year	In-situ Volume Dredged (cy)	Press Drops	Filter Cake (cy)	Cake (cy) / Insitu (cy)
2004	12550	716	5800	0.462
2005	24728	1600	12960	0.524
2006	20096	1377	11154	0.555
2007	23307	1558	12620	0.541

Avg	0.540
-----	-------

Notes:

1. 2004 data not used in average due to cell dredging activities (likely not representative).
2. Filter cake volume calculated based on 8.1 cubic yards per drop, which the density as it comes off the filter press, which is compressed.

JE JACOBS

Anita Rigassio Smith

Project Manager

6 Otis Park Drive

Bourne, MA 02532

Office 508.743.0214 x265

Mobile 508.802.7320

