From: Ellinger, Scott
To: Moats, William, NMENV
Cc: Brandwein, Sid, NMENV; McDonald, William, NMENV; Dave.Cobrain@state.nm.us; Smith, Melissa; King, Laurie
Subject: RE: KAFB BFFS model
Date: Tuesday, April 30, 2013 11:21:41 AM
Attachments: image009.png
image010.png
image011.png
image012.png

Sorry for the delay. I am using 55.4 for longitudinal dispersivity. For ratios of horizontal/longitudinal and vertical/longitudinal I am using 0.01 (at this point).

The length (3,048 m) is the approximate length of the plume as measured from near the center of the LNAPL area to a line drawn between Ridgecrest wells 5 and 3. (Note: the calculation has to be made in meters.)

$$\alpha_m = 0.83\ (\log\ 3{,}048\ m)^{2.414}$$

$$\alpha_m = 0.83\ (3.48\ )^{2.414}$$

$$\alpha_m = 0.83\ \cdot 20.35$$

$$\alpha_m = 16.89\ m = 55.4\text{ft}$$

From: Moats, William, NMENV [mailto:Williams.Moats@state.nm.us]
Sent: Monday, April 29, 2013 2:47 PM
To: Ellinger, Scott
Cc: Brandwein, Sid, NMENV; McDonald, William, NMENV; Dave.Cobrain@state.nm.us
Subject: KAFB BFFS model

Hi Scott,

After the meeting last week, you mentioned you could provide me with the longitudinal and transverse dispersivity used in the model. If you can send those numbers to me at your convenience, we at NMED will ponder their meaning.

--Will