

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Wednesday, October 02, 2013 1:49 PM
To: 'Hetrick, Eric G'; 'bbrasher@crowworld.com'; 'Gilbert, Judy'
Cc: Roe, Dilan, Env. Health
Subject: Chevron 9-5607 5269 Crow Canyon Rd, Castro Valley, CA (RO350): Report Submittal Extension and Additional Thought

Eric et. al,

In followup to the conference call earlier today, I have extended the timeline in Geotracker for the submittal of the report to December 20, 2013; hoping to keep it a bit away from all the holiday festivities. Please use this email to document the extension. Please also know that additional reasonable extensions are possible (but hopefully won't be needed).

We also had the additional thought as we were signing off the call this morning, in regards to the potential use of MNA at the site; one that should factor into your decision making for remedial options at the site. ACEH would not be able to consider MNA at a site without an understanding of the source area location(s), and an estimate of the residual mass that would be needed to estimate a MNA timeline. The LTCP also requires adequate delineation of contamination. The recent work discussed suggests an additional source area at the site; one that has previously been suggested by the consistency of groundwater concentrations over the life of this project. The recent concentration of benzene in wells C-3 and C-6 was each 13,000 ug/l (July 2013). A very similar concentration of benzene has been present in each well as far back as October 1996 (C-3) and September to December 1990 (C-6). Benzene (and other constituents) concentrations have cycled significantly up and down in that time (C-3 down to 32 ug/l benzene and up to LNAPL concentrations; C-6 down to 16.8 and up to 27,000 ug/l benzene). Well C-3 had an approximately 4.5 year period where LNAPL caused it from being sampled during that time. As a rough guide, ACEH interprets this data to indicate that a return to higher contaminant concentrations do remain possible from residual soil mass at the site from the current concentrations. Clearly significant residual mass is present beneath the site that has not been documented or estimated and will factor into MNA estimates.

Hope this helps.

Thanks also for the discussion this morning. It should really help the site progress.

Regards,

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<http://www.acgov.org/aceh/lop/ust.htm>