

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Friday, June 30, 2017 10:51 AM
To: 'Xinggang Tong'
Cc: Nancy Humphrey
Subject: RE: Your 5/17/17 approval letter for work plan for RO#61 site

Hi Xinggang,

Sorry for my delay. It's the end of the fiscal year (today), and all of the "i"s need to dotted, and the "t's crossed for the state. Regardless, I've had a moment to focus on your questions.

- 1) Well Screen Interval – You might check with public works, but they might include the bentonite in the seal thickness; I'm not sure, but that would allow you to screen slightly higher. Public Works should approve screens up to about 4 from past experience, and we can live with it at that point as you can over-purge slightly to ensure the water level is below the screen at the time of sampling. As also discussed in the directive letter, well screens greater than 15 feet should be avoided due to the potential to link different water bearing granular intervals and potential dilution of the upper water bearing interval.
- 2) Vapor Well Construction – What you propose sounds reasonable. If groundwater is shallow, it's shallow and you won't be able to get a full-depth vapor well 5 feet below a foundation. We will take less, but depending on how shallow may then need to evaluate it against ESLs as it won't meet LTCP depth specifications and thus the LTCP for vapor (using ESLs, we'd use the agency determination within the vapor criteria).

Hope this helps.

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

From: Xinggang Tong [mailto:xtong.otg@gmail.com]
Sent: Wednesday, June 21, 2017 3:51 PM
To: Detterman, Mark, Env. Health <Mark.Detterman@acgov.org>
Cc: Nancy Humphrey <n Humphrey@emeryville.org>
Subject: Your 5/17/17 approval letter for work plan for RO#61 site

Hi Mark,

Thank you for your approval letter of 5/17/17 for the Work Plan submitted for RO#61 site located at 6303 Hollis Street, Emeryville, CA. We are in the process of implementing tasks detailed in the work plan and your

technical comments contained in your approval letter. We further appreciate your technical comments or approval on the following two issues:

1) Location and length of well screen

Historical shallow groundwater elevations at the site were measured as high as 3 ft below ground surface (bgs). We initially proposed to install new monitoring wells with the top of well screen as high as 3 ft bgs. However, after discussion with the County Public Works Agency Drilling Permit Division, it is preferred to have a minimum of 5 ft seal to prevent potential surface water influence. This means that the new wells can have the top of well screen as high as 6 ft bgs. We can install the new wells to 20 ft bgs with well screen from 6 ft to 20 ft bgs. However, this could leave the well screen potentially submerged if and when the shallow groundwater level rise to above 6 ft bgs. We'd like to have your approval before installing the new wells with well screen from 6 ft to 20 ft bgs.

2) Soil Vapor Well Construction

The building foundation is slab on grade and the proposed two vapor monitoring wells are located just outside the building slab. We certainly can install the two vapor monitoring wells to the depth of 6.5 ft bgs per the LTCP guidance (rather than the proposed 5 ft bgs). We can install the new groundwater monitoring wells first. If the groundwater level in the new wells measures to 7.5 ft bgs or lower overnight, we will install the vapor monitoring wells to 6.5 ft bgs. If the groundwater level measures shallower than 7.5 ft bgs, we'll install the vapor well to one ft above the measured groundwater level. Would you agree with this approach?

Thank you very much!

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