Delwiche, Jim C - DNR

From:

Delwiche, Jim C - DNR

Sent:

Tuesday, July 11, 2017 2:49 PM

To:

Bob Cigale (bob@endpointcorporation.com)

Subject:

Krystal Cleaners

Hi Bob,

Here are our comments regarding the vapor mitigation for Krystal Cleaners BRRTS# 02-68-576741:

- Need additional sub-slab vacuum testing:
 - o At least on more complete round of sub-slab vacuum testing needed to evaluate seasonality.
 - O More vacuum probes needed on northern half of the 143E and 145E units because the sub-slab vapor conditions remain undefined. Unless they can show with additional sub-slab sampling that the northern half of these units do not need mitigation (i.e. subslab vapors < VRSLs), then they will need to conduct additional communication testing to verify that entire slab is depressurized. (If it is not depressurized then modifications to the mitigation system may be needed until complete depressurization is achieved.)
 - Evaluate sub-slab vacuum at VP-143 again. The vacuum of -0.001 inches H2O is smaller than we usually like to see. If the geology is sandy, this low vacuum is reasonable. If the geology is less permeable, this lower vacuum might indicate the fans have limited effectiveness in depressurizing the slab below the 143E unit. The additional testing would build confidence that the building is depressurized over the areas requiring mitigation.
- Document the vacuum at the fans with a permanently mounted manometer.
 - o Record vacuum at the manometer each time sub-slab vacuum is measured
 - o Take a picture to show what manometer reading looks like when sub-slab vacuums are verified.
 - o These are the baseline conditions for the system.
- Prepare an operation, maintenance, and monitoring plan for the final system

Please let me know if you have any questions or want to discuss further.

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James C. Delwiche

Hydrogeologist - Remediation & Redevelopment Program

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