Wickham, Jerry, Env. Health

From: Rob Balas [rob@irisenv.com]
Sent: Thursday, November 19, 2009 5:00 PM
To: Wickham, Jerry, Env. Health
Cc: Binayak Acharya; 'bsearcy@ecostmanage.com'; 'Mike Desso - Nestle'; 'Costanza,Jennifer,GLENDALE,Legal'; Greg Noblet; Den Thap; John McLaughlin
Subject: SLIC Case No. RO0000018: Carnation Dairy Sub-slab Soil Gas Sampling and Analysis Plan
Attachments: Carnation_Dairy_Sub-slab_Soil_Gas_SAP_2009-11-19.pdf; Carnation_Dairy_Sub-slab_Soil_Gas_SAP_2009-11-19_cover_letter.pdf

Dear Mr. Wickham,
Iris Environmental is submitting this sub-slab soil gas sampling and analysis plan (SAP) in response to the Alameda County Environmental Health (ACEH) department request for a *Work Plan for Subslab Vapor Sampling* in their September 18, 2009 letter. Previous site investigations at the commercial property located at northwestern portion of 1310 14th Street in Oakland, California (site) have documented the presence of volatile organic compounds (VOCs) in the subsurface at the site. Of concern is the possibility that VOCs present in the subsurface may migrate upwards via diffusion through the vadose (unsaturated) soil zone, and be transported by advection through cracks, conduits, or seams in the building foundation into the indoor air space of the existing onsite commercial building (a transport phenomenon known as “vapor intrusion”), where potential occupants may be exposed to the volatile chemicals via the inhalation route. The vapor intrusion pathway was previously evaluated as part of the screening health risk evaluation, and it was found that vapor intrusion is unlikely to be occurring at levels of concern to commercial workers. Nonetheless, given the uncertainly inherent in vapor intrusion modeling, ACEH would like to confirm the results of vapor intrusion analysis. Accordingly, the purpose of the investigation described in the attached SAP is to measure the concentrations of VOCs in sub-slab soil gas beneath the commercial building, and to gather the data necessary to evaluate whether vapor intrusion is occurring at the site at significant levels. Please don’t hesitate to give me a call if you have any questions.
Regards,
Robert Balas
Principal
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