

## Wickham, Jerry, Env. Health

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**From:** Wickham, Jerry, Env. Health  
**Sent:** Tuesday, February 04, 2014 6:08 PM  
**To:** 'Goloubow, Ron'  
**Cc:** Bell, Caitlin; Shipley, Jay; Jouhet, Sandra @ Auburn Hills  
**Subject:** RE: RO400 Work Plan

Hello Ron,

No objections to the additional locations.

Given that the sampling locations are within a building surrounded by paved areas, conditions are not likely to be sensitive to rainfall. Therefore, there could be some flexibility with regard to the guidance.

Regards,  
Jerry Wickham  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
phone: 510-567-6791  
jerry.wickham@acgov.org

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**From:** Goloubow, Ron [mailto:Ron.Goloubow@arcadis-us.com]  
**Sent:** Tuesday, February 04, 2014 4:46 PM  
**To:** Wickham, Jerry, Env. Health  
**Cc:** Bell, Caitlin; Shipley, Jay; Jouhet, Sandra @ Auburn Hills  
**Subject:** RE: RO400 Work Plan

Hi Jerry – I wanted to let you know that the scope of the soil vapor investigation has been expanded as requested by the tenant at the Volkswagen Car Dealership in Oakland. The revised scope of work will include the collection of 5 sub slab soil vapor samples (three more than originally included in the scope of work) and 3 vapor samples from vadose zone soil vapor monitoring wells (two more than originally included in the scope of work).

The 5 sub slab samples will be collected at the following locations: 1 in the garage; 2 in the room immediately west of the garage; and 2 in an office immediately west of the room (see the attached figure).

The 3 soil vapor monitoring wells will be located as follows: 2 in the garage; 1 in an office immediately west of the room (see the attached figure).

We are tentatively set to conduct the field work during the week of February 10; the sampling is subject to be postponed based on the weather (from the DTSC guidance document):

“Rainfall decreases the air-filled porosity of the shallow soil, thereby limiting diffusional transport of volatile contaminants. Also, soil gas contaminants may partition into the clean infiltrating rainwater, both of which may potentially bias soil gas sampling results. Hence, soil gas sampling should not occur during a significant rain event and should only occur after **five days without a significant rain event**. A significant rain event is defined as 1/2 inch or greater of rainfall during a 24-hour period.”

The as the report of this investigation is due to the Alameda County Department of Environmental Health on March 19, 2014.

Please let me know if you have any questions or need any more information.

Thanks Ron.

**Ron Goloubow, P.G.** | Principal Geologist | [ron.goloubow@arcadis-us.com](mailto:ron.goloubow@arcadis-us.com)  
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**From:** Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]  
**Sent:** Wednesday, November 06, 2013 8:42 AM  
**To:** Goloubow, Ron  
**Cc:** Bell, Caitlin  
**Subject:** RE: RO400 Work Plan

This should be enough for me to write a conditional approval. Should get the letter out within next few days.

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**From:** Goloubow, Ron [<mailto:Ron.Goloubow@arcadis-us.com>]  
**Sent:** Tuesday, November 05, 2013 1:38 PM  
**To:** Wickham, Jerry, Env. Health  
**Cc:** Bell, Caitlin  
**Subject:** FW: RO400 Work Plan

Hi Jerry how about this?

### ***Setup and Leak Testing***

After the sampling apparatus is placed onto the tubing that comprises the soil-vapor probe, a leak test will be conducted to assess the sample apparatus fittings. With the valves at the sample canister and soil-vapor sampling point both in the closed position, a manual purging device (i.e., gas-tight syringe with purge valve) will be activated to apply a vacuum to the sampling apparatus of at least 10 inches of mercury (Hg). The valve between the tee and the manual purging device will be closed to observe whether the vacuum is maintained in the sampling apparatus between the soil-vapor sampling point and the sample canister. If the vacuum is maintained (no more than 10% loss in 10 minutes) then the sampling procedure will continue. The vacuum will be maintained at each location to indicate that the fittings and connections in the sampling apparatus are maintained. Helium will be used as a tracer compound for the leak check compounds. Helium will be placed at the ground surface under a shroud placed where the Nylaflo<sup>®</sup> tubing enters the ground surface where ambient air could enter the sampling system.

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**From:** Wickham, Jerry, Env. Health [<mailto:jerry.wickham@acgov.org>]  
**Sent:** Tuesday, November 05, 2013 8:24 AM

**To:** Bell, Caitlin; Goloubow, Ron  
**Subject:** RO400 Work Plan

Ron and Caitlin,

I was able to review your Work Plan for RO400, Volkswagen, Oakland. I had one question/comment regarding leak checks. If you can answer this question in an email, I should be able to provide a conditional approval for the Work Plan.

Please provide further information on how leak checks will be performed. No leak check compounds appeared to be identified in the analyte list.

Regards,

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