

From: [Phillips, Hollis](#)
To: [Roe, Dilan, Env. Health](#)
Cc: [Wager, Janet J](#)
Subject: RE: Former BP 4931 - RO_0076. Soil Vapor Sampling Next Thursday
Date: Tuesday, April 10, 2012 2:15:38 PM

Dilan:

For the BP RPs please remove Jon Armstrong and Shannon Couch and replace them with Janet Wager (cc'd here). I am still trying to gather information about the other RPs you have listed.

Because of the rain we will need to postpone the soil vapor sampling event until next week. I'm waiting for some information from the laboratory and will respond to your comments when I hear back from the laboratory.

Hollis

NOTE NEW PHONE NUMBER

Hollis E. Phillips, PG | Principal Geologist | hollis.phillips@arcadis-us.com
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From: Roe, Dilan, Env. Health [mailto:Dilan.Roe@acgov.org]
Sent: Monday, April 09, 2012 3:58 PM
To: Phillips, Hollis
Cc: shannon.couch@bp.com; jon.armstrong@bp.com
Subject: FW: Former BP 4931 - RO_0076. Soil Vapor Sampling Next Thursday

Hi Hollis:

I have resent this email correspondence in order to transmit to the RPs.

Regards,

Dilan Roe, P.E.

Hazardous Materials Specialist
Alameda County Environmental Health
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Alameda, CA 94502
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dilan.roe@acgov.org

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From: Roe, Dilan, Env. Health
Sent: Monday, April 09, 2012 3:39 PM
To: 'Phillips, Hollis'
Subject: RE: Former BP 4931 - RO_0076. Soil Vapor Sampling Next Thursday

Hi Hollis:

I have reviewed your requests for deviations from the ACEH approved Work Plan Addendum for Additional Soil Characterization dated March 7, 2011 and ARCADIS' Soil Vapor Probe Installation and Sampling Summary dated July 15, 2011 for compliance with the DTSC Advisory – Active Soil Gas Investigation document. A summary of my review comments is provided below:

- Table 1 presents analytical laboratory test results for the soil vapor samples collected during the dry season event on June 9, 2011. Concentrations of naphthalene in samples collected from probes SV-2-6911, SV-2B-6911, SV-3-6911, SV-3B-6911, SV-6-6911, SV-6B-6911, and Dup-01-6911 were reported as Non-Detects, however, each of these results had a high Reporting Limit (RL) due to sample dilution. Thus, although reported as non-detects, the RL exceeded the target screening level by one to two orders of magnitude. Concentrations of benzene and ethyl benzene in samples collected from probes SV-6B-6911 and Dup-01-6911 were also reported as non-detects, however again the limits exceed the target screening levels. Please select appropriate analytical methods (including consideration of Method TO-17 for confirmation sampling of naphthalene) to achieve the RLs at or below the target levels in accordance with our Directive Letter dated May 12, 2011 and the DTSC Advisory. Also, Table 1 references both commercial/industrial ESLs and residential ESLs as the target concentrations. Please clarify the target levels.
- Field notes indicate very slow flow into the Summa canister at well SV-5. If low flow conditions persist in the upcoming sampling event, please investigate and re-evaluate the need for the for the sampling location and consider using alternate low flow sampling methods if appropriate (Appendix D of the DTSC Advisory).
- The soil gas sample collected from SV-1-6911 contained helium at a concentration indicative of a significant leak and thus potentially compromising the validity of the reported target compound concentrations. Also, field notes indicate that sample tubing for several of the wells has a brittle feel. Although no visible cracks were observed, please conduct a leak test at each vapor monitoring well each time a soil gas sample is collected in accordance with the DTSC Advisory to ensure samples are not diluted or contaminated by ambient air.

Based on these results, please continue to collect the samples in individually certified rather than batch certified SUMMA canisters, in order to provide additional QA/QC for Naphthalene by Method TO-15. Also, although the Work Plan specifies the use of 6L- canisters, please use 1L canisters in accordance with the DTSC Advisory for shallow samples collected at less than five feet below ground surface.

Also, at this time the data does not provide conclusive evidence that the soil gas concentrations are stable over the course of a day, therefore please continue to sample each well during both the morning and evening hours as directed in our May 12 letter.

As a reminder, please consider barometric pressure conditions and rainfall events when scheduling your upcoming soil gas sampling event. Also, please record the barometric pressure, rainfall data, and other conditions at the site such as evidence irrigation of soil on the field notes that could potentially limit diffusion transport of volatile contaminants and bias soil gas sampling results.

Regards,

Dilan Roe, P.E.

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From: Phillips, Hollis [<mailto:Hollis.Phillips@arcadis-us.com>]
Sent: Friday, April 06, 2012 4:48 PM
To: Roe, Dilan, Env. Health
Subject: Former BP 4931 - RO_0076. Soil Vapor Sampling Next Thursday

Dilan:

We are planning on conducting the wet season soil vapor sampling next Thursday. After review of the WP we are requesting the following deviations:

1. We would like to use 1-L batch-certified summa canisters instead of the 6-L fully certified, i.e., one canister out of a batch of 20 is certified, not every canister is certified. Batch certification is standard practice.
2. The data from the last round of soil vapor sampling in the morning and evening indicated results within the same order of magnitude with the exception of one sample (SV-1). Because the results are, as expected, very similar ARCADIS requests that only one round of sampling be conducted.

Please let me know if you are ok with these deviations by Monday PM if possible (we need to order and ship the canisters).

We will get traffic control at the site the next round of GW monitoring (3Q11).

As far as the RPs I am looking into the non-BP ones you listed (I've never seen these

names/companies before).

Hollis

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Please consider the environment before printing this email.

From: Roe, Dilan, Env. Health [<mailto:Dilan.Roe@acgov.org>]

Sent: Thursday, April 05, 2012 3:55 PM

To: Phillips, Hollis

Cc: shannon.couch@bp.com; jon.armstrong@bp.com

Subject: RE: Various Site Questions, RO_0076

Hi Hollis:

I realize you were hoping to conduct the wet season soil vapor sampling in conjunction with sampling of sub-slab soil vapor probes as proposed in your Work Plan for Additional Soil Vapor Characterization dated November 4, 2011. However, given the fact that I have just been assigned as the primary caseworker for the site, and the wet season is indeed coming to an end, I concur with your decision to collect the requisite samples from the existing six permanent soil vapor probes (SV-1 through SV-6) at the site.

Please conduct the sampling in accordance with the Work Plan Addendum for Additional Soil Characterization dated March 7, 2011. In addition, as stated in ACEH Directive Letter dated May 12, 2011, please collect the samples at various times of the day so that the samples are adequately representative of actual site conditions. Also, as per the letter please ensure that laboratory detection limits are below the contaminant's corresponding ESLs. As the stipulated wet season soil vapor sampling report due date of December 31, 2011 is past due, please submit the report within 30 days of receipt to the laboratory samples.

Also, upon a cursory review of the last two groundwater monitoring reports (First and Third Quarter 2011) I noted that wells A-11 and A-12 were not sampled during either of the quarterly events due to needing traffic controls, and well A-13 was not sampled during the Third Quarter sampling event apparently due to being paved over with asphalt during road repair. Please ensure that the problems with these wells are taken care of in future monitoring events.

I will be working on reviewing the case files and providing you with comment on the following documents:

Work Plan for Additional Soil Vapor Characterization, (ARCADIS, 11/4/2011)

Third Quarter 2011 Monitoring Report , (ARCADIS, 10/31/2011)

Soil Vapor Probe Installation and Sampling Summary (ARCADIS, 7/15/2011)

Also, as noted in an email correspondence from Paresh Khatri dated 9/30/2011, once my review is complete I will identify a revised date for submittal of the requisite Engineering Feasibility Study/Corrective Action Plan.

Lastly, please provide me with email addresses for all of the RPs so that they may be included in all correspondence on this case. My records indicate that in addition to Shannon Couch and Jon Armstrong, the other RPs include Raj Mulkh & Bhatia Kulwinder, ETAL, and Vintners Distributors, Inc.

I look forward to working with you on this project.

Regards,

Dilan Roe, P.E.

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From: Phillips, Hollis [<mailto:Hollis.Phillips@arcadis-us.com>]
Sent: Wednesday, April 04, 2012 12:00 PM
To: Roe, Dilan, Env. Health
Subject: RE: Various Site Questions

Dilan:

Since the rainy season is sadly winding down, I'll move forward with that required soil vapor sampling and wait for your response on the proposed sub-slab soil vapor sampling. If you have any questions about the sites or our proposed activities please do not hesitate to contact me.

Thanks

Hollis

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From: Roe, Dilan, Env. Health [<mailto:Dilan.Roe@acgov.org>]
Sent: Wednesday, April 04, 2012 11:55 AM
To: Phillips, Hollis
Subject: RE: Various Site Questions

Hello Hollis:

As indicated in Paresh's email below, I have recently been assigned as the primary case worker for RO000076 – Former BP 4931- 731 W. MacArthur Blvd, Oakland and RO0000456 – Former BP 11102 100 MacArthur Blvd, Oakland. I will get back to you on Items 1 and 5 once I have completed my file review.

Regards,

Dilan Roe, P.E.

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From: Phillips, Hollis [<mailto:Hollis.Phillips@arcadis-us.com>]
Sent: Wednesday, April 04, 2012 11:42 AM
To: Roe, Dilan, Env. Health
Subject: RE: Various Site Questions

Dilan:

Please let me know about Items 1 and 5.

Thanks,
Hollis

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