

From: [Soo, Kit, Env. Health](#)
To: "[Steven Greenwood](#)"
Cc: "[Tan, Angeline](#)"; [Roe, Dilan, Env. Health](#); "[Kalve, Erica](#)"
Subject: RE: Proposed Indoor Air Sampling Locations - RO0411
Date: Monday, April 10, 2017 3:26:00 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Dear Mr. Greenwood,

This is to let you know that Dilan Roe and I spoke to Erica Kalve from Arcadis this afternoon (April 10, 2017) to get a more details on the air sample results for the samples collected from Building 300 on March 12, 2017. She provided the details as indicated in her latest email to us dated April 7, 2017. It is our understanding that Benzene was detected at an estimated concentration of 22 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at sample location IA-02 which is located in the girls bathroom in building 300. These results are not representative of normal operating conditions and historical results indicate that benzene has usually been detected at much lower concentrations during the September 2015 ($0.28 \mu\text{g}/\text{m}^3$) and April 2016 ($0.54 \mu\text{g}/\text{m}^3$) sampling events, respectively.

Based on the recent elevated detection of benzene at IA-02, we understand that the heating, ventilation, and air-conditioning (HVAC) system at both the girls and boys bathroom has been turned on and the doors to the bathrooms are locked. We would like to reiterate that the HVAC system must be on at all times and that the doors to the bathroom remain lock and inaccessible until this issue with respect to the elevated benzene indoor air concentration is resolved.

Please let me know if you have any questions.

Thank you,

Kit Soo, PG

Senior Hazardous Materials Specialist

Alameda County Department of Environmental Health (ACDEH)
1131 Harbor Bay Pkwy
Alameda, CA 94502
Direct - 510-567-6791
kit.soo@acgov.org

From: Soo, Kit, Env. Health
Sent: Monday, April 10, 2017 2:00 PM
To: 'Kalve, Erica' <Erica.Kalve@arcadis.com>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>
Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: RE: Proposed Indoor Air Sampling Locations - RO0411

Hi Erica,

Thank you for sending this information and informing us. We would like to discuss this issue including your proposed interim response actions with you on a conference call as soon as possible. Please advise when of the below is good for you:

- April 10, 2017 (Today) – anytime until 5 pm.
- April 11, 2017 (Tuesday) – anytime between 11:30 am and 1:00 pm

I also just left you a message and I believe you will be calling me back in 10 minutes or so, I look forward to speaking with you then.

Thanks, Kit

From: Kalve, Erica [<mailto:Erica.Kalve@arcadis.com>]
Sent: Friday, April 07, 2017 1:18 AM
To: Soo, Kit, Env. Health <Kit.Soo@acgov.org>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>

Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>

Subject: RE: Proposed Indoor Air Sampling Locations - RO0411

Dear Kit,

We are sending this email to notify you of the air sample results for samples collected from the subject site on March 12th, 2017. This email also provides a proposed path forward and schedule.

We called and left a message last week to provide an update regarding our sample schedule. We have had an issue trying to coordinate with a contractor that can safely place the outdoor air sample canisters on the roof. At this time, we have conducted two sample events, one was conducted on Sunday, March 12th and the second event was conducted on Friday, April 3rd. Both events were conducted when school was not in session and the indoor air results are representative of conditions when the site is unoccupied. The indoor air event conducted on March 19th was limited in that the sampling team was unable to place canisters on the roof to obtain the necessary background samples that we proposed in the field sampling plan, and that is the reason why an additional sample event was conducted on April 3rd, while school was out on spring break. Note that spring break is out this week and there will be a teacher work day on Monday and school will be back in session next Tuesday.

We received a subset of laboratory results for samples collected on March 12th, and additional laboratory results should be provided later today or tomorrow. A site map showing the approximate sample locations for samples collected during the March 12th sample event is shown on the attached Figure 1 and the results received to date for Building 300 are summarized in the table below.

Sample Location	Sample Date	Benzene	Toluene	Ethyl-benzene	m,p-Xylene	o-Xylene	MTBE	TPHg	Naphthalene
IA-01	3/12/2017	1.2	4.2	0.84	3.0	1.1	0.010 J	180	0.27 J
IA-02	3/12/2017	22 J	4.5	1.0	3.0	1.1	0.010 J	310	0.32 J
IA-03	3/12/2017	1.2	4.2	0.81	3.0	1.1	<0.58	140	0.37 J
IA-04	3/12/2017	1.2	4.3	0.84	3.2	1.2	<0.56	150	0.35 J
IA-05	3/12/2017	1.1	3.8	0.76	2.8	1.0	0.012 J	110	0.32 J
IA-06	3/12/2017	1.1	3.8	0.76	2.7	1.0	<0.60	130	0.32 J
IA-07	3/12/2017	0.96	3.4	1.1	4.2	1.9	0.0094 J	120	0.46 J
IA-08	3/12/2017	0.84	2.1	0.52	1.8	0.66	0.011 J	<65	0.30 J
IA-09	3/12/2017	0.82	4.3	0.65	2.3	1.2	0.024 J	<67	0.31 J
IA-10	3/12/2017	0.86	2.2	0.49	1.7	0.66	0.0088 J	<66	0.29 J

Notes

MTBE = methyl tertiary-butyl

ether

TPHg = total petroleum hydrocarbons as gasoline

< = not detected above the method reporting limit

Benzene was detected above the respective criteria in the six indoor air samples analyzed (outdoor air and riser sample results have not been reported yet). Additionally, benzene was detected at an estimated concentration of 22 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) at sample location IA-02 which is located in the girls bathroom to building 300. These results are not representative of normal operating conditions as historical results indicate that benzene has usually been detected at much lower concentrations including $0.28 \mu\text{g}/\text{m}^3$ and $0.54 \mu\text{g}/\text{m}^3$ during the September 2015 and April 2016 sample events, respectively.

We plan to initiate interim response actions to address the elevated concentration of benzene detected in the girls bathroom in building 300. Our proposed path forward is as follows:

- Aspire is going to turn on the HVAC system for building 300 as an interim action to reduce benzene concentrations in

the bathroom. The school has been closed all week and the maintenance personnel may not be available to help implement this action until Monday morning.

- Arcadis plans to collect an 8-hour indoor air sample at location IA-02 once the HVAC system is operating to assess air quality in the bathroom following implementation of the interim action. Samples will be submitted to the laboratory on a 24-hour turnaround time. Assuming samples are collected on Monday results would be expected by end of business on Wednesday.
- Arcadis plans to conduct a pathway evaluation in the bathroom during the site visit. If we are able to identify any meaningful pathways, we will plan to seal the pathways. We can provide additional detail on the pathway sealing approach following the pathway evaluation.
- Aspire will place notification on the door to the bathrooms in Building 300 noting that the bathrooms are out-of-service. They will remain out-of-service until we confirm that benzene concentrations are below levels of concern. Once we confirm that the HVAC is working as an interim measure, Aspire will plan to keep the HVAC operating continuously until other mitigation measures are implemented and effectiveness is demonstrated.

A third sample event is currently scheduled for April 18th to document conditions during normal school hours. We will continue to keep you informed regarding confirmation sample results, pathway sealing activities, and associated activities.

Please let us know if you have any questions or would like to discuss the information provided above. We look forward to hearing from you.

Sincerely,
Erica

Erica Kalve, PG | Principal Geologist | erica.kalve@arcadis.com
Arcadis | Arcadis U.S., Inc.
100 Smith Ranch Road, San Rafael, California | 94903 | USA
T. +1 415 491 4530 x22 | M. + 1 510 206 4514

Professional Geologist / PG-CA, #8425

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Be green, leave it on the screen.

From: Soo, Kit, Env. Health [<mailto:Kit.Soo@acgov.org>]
Sent: Tuesday, February 21, 2017 8:49 AM
To: Kalve, Erica <Erica.Kalve@arcadis.com>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>
Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: RE: Proposed Indoor Air Sampling Locations - RO0411

Dear Erica,

Based on your request below, the schedule for the indoor air sampling for Buildings 200 and 300 has been extended as requested and sampling must be conducted no later than March 20, 2017.

If you have any questions, please let me know. Thanks, Kit

From: Kalve, Erica [<mailto:Erica.Kalve@arcadis.com>]
Sent: Friday, February 17, 2017 11:14 AM
To: Soo, Kit, Env. Health <Kit.Soo@acgov.org>
Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: RE: Proposed Indoor Air Sampling Locations - RO0411

Dear Kit,

Thank you for your time on Wednesday afternoon to discuss the issue with limited Summa canisters. As discussed, we contacted several laboratories and found that only one lab is able to provide Summa canisters – but even that was limited to one of the two events that we need to implement. Also, I am not familiar with the lab's performance and after asking around understand that other project teams have had concerns with the quality of the labs data for soil and groundwater samples. As such, we have decided that it is not a good idea to switch labs even though I would gladly do it otherwise.

As discussed, sampling over a normal weekend will provide the data necessary to assess indoor and outdoor air conditions when school is not in session and we do not need to wait for the next holiday weekend. As such, we request your approval for a short extension for the sampling event to be conducted by mid-March. Please let us know if this is okay. The soonest we can obtain the first set of Summas is February 28th and the second set of Summas is scheduled to be delivered on March 3rd. We appreciate your patience regarding this matter and look forward to your input.

Best regards,
Erica

Erica Kalve, PG | Principal Geologist | erica.kalve@arcadis.com
Arcadis | Arcadis U.S., Inc.
100 Smith Ranch Road, San Rafael, California | 94903 | USA
T. +1 415 491 4530 x22 | M. + 1 510 206 4514

Professional Geologist / PG-CA, #8425

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From: Soo, Kit, Env. Health [<mailto:Kit.Soo@acgov.org>]
Sent: Friday, February 10, 2017 12:54 PM
To: Kalve, Erica <Erica.Kalve@arcadis.com>
Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>; Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: RE: Proposed Indoor Air Sampling Locations - RO0411

Dear Mr. Greenwood,

Alameda County Department of Environmental Health (ACDEH) approves of the four proposed locations inside Building 200, as proposed by your consultant Arcades in the email below and the attached Figure 3. Please implement the work, together with the rest of the indoor air sampling proposed for Building 300, in the *Building 200 and 300 Indoor Air Monitoring Work Plan for the Former Pacific Electric Motors Site*, dated September 28, 2016 as planned. Please also refer to the Alameda County Department of Environmental Health (ACDEH) directive letter dated November 17, 2016.

In addition, we understand from your consultant that you plan to sample during the President's Day Holiday on February 20, 2017, and the day after (February 21, 2017). However, we were also notified that the availability of summa canisters from the laboratory is currently a major limiting factor and the work may be delayed if they are not available during the required time. We would like to stress that we would prefer that this work be performed as planned to avoid any delays if possible.

If you have any questions, please let me know.

Thanks,

Kit Soo, PG
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health (ACDEH)
1131 Harbor Bay Pkwy
Alameda, CA 94502

Direct - 510-567-6791

kit.soo@acgov.org

From: Kalve, Erica [<mailto:Erica.Kalve@arcadis.com>]
Sent: Wednesday, February 08, 2017 11:54 AM
To: Soo, Kit, Env. Health <Kit.Soo@acgov.org>
Cc: Tan, Angeline <Angeline.Tan@arcadis.com>; Steven Greenwood <Steven.Greenwood@aspirepublicschools.org>
Subject: Proposed Indoor Air Sampling Locations - R00411

Hi Kit,

We conducted a site walk at Building 200 to identify potential indoor air locations. During the site walk we observed the following:

- Building 200 does not have a central HVAC system. Each room has its own climate control system.
- There are two pipe penetrations that housed utility (see attached figure) that goes into the 2nd floor.
- All the classrooms are approximately the same size.

Therefore we are proposing to collect the following locations as shown in the attached figure:

- One indoor air sample in the room with the pipe penetration on the 1st floor
- One indoor air sample in the room without the pipe penetration on the 1st floor
- One indoor air sample in one of the bathroom on the 1st floor
- One indoor air sample in the room with the pipe penetration on the 2nd floor

We think that the collection of the proposed indoor air samples are representative of indoor air quality in Building 200.

Please let us know if this proposed sample layout is acceptable. We look forward to hearing from you.

Best regards,
Erica

Erica Kalve, PG | Principal Geologist | erica.kalve@arcadis.com
Arcadis | Arcadis U.S., Inc.
100 Smith Ranch Road, San Rafael, California | 94903 | USA
T. +1 415 491 4530 x22 | M. +1 510 206 4514

Professional Geologist / PG-CA, #8425

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