Roe, Dilan, Env. Health

From: Roe, Dilan, Env. Health
Sent: Tuesday, September 15, 2015 6:35 PM
To: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com
Cc: Nowell, Keith, Env. Health; 'PDKing0000@aol.com'
Subject: RO2981 - Red Hanger Kleeners

Gentleman:

Keith and I phoned Paul King this afternoon to get a status update on the implementation of mitigation measures at the subject site due to the exceedances of the Accelerated Response Action Level (ARAL) for trichloroethylene (TCE) of 8.0 micrograms per cubic meter in indoor air samples collected on September 3 and 4.

Paul indicated that he sent the lab results from this most recent sampling event to you on September 9, and recommendations for mitigation measures including increasing the ventilation in the tenant spaces and installing air filtration units in suites where ventilation cannot be adjusted.

Although some mitigation measures have been implemented (sealing the annular space in the elevator shaft, foundation, and pipe, shampooing the carpet, etc.), the recent indoor air sampling results indicate the need for additional measures to mitigate air quality.

Additional measures should be implemented immediately. Therefore, please provide Alameda County Environmental Health (ACEH) with a scope and timeline providing details with the proposed mitigation measures by the **close of business on Thursday September 17**.

Additionally, as previously requested in an email correspondence on August 21, please also submit a draft Fact Sheet to ACEH by the **close of business on Thursday September 17**.notifying tenants of the TCE exceedances in indoor air and proposed mitigation measures, and the next steps in the ongoing investigation of the tetrachloroethylene (PCE) release from the former Red Hanger Cleaners. The fact sheet should be prepared in accordance with the Department of Toxic Substances Control (DTSC) Vapor Intrusion Public Participation Advisory (March 2012) including but not limited to Appendix C – Indoor Air Sampling and the San Francisco Bay Regional Water Quality Control Board's draft document entitled Interim Framework for Assessment of Vapor Intrusion at TCE-Contaminated Sites in the San Francisco Bay Region, dated October 16, 2014.

The last formal report received by ACEH for the subject site on September 1, 2015 was the Phase II Environmental Site Assessment Soil Gas Investigation prepared by Youngdahl Consulting Group Inc. dated August 25, 2015 and submitted on behalf of EFI Global Inc and Mr. Ron Elvidge. A review of GeoTracker indicates that no GEO_MAPS or EDF data was uploaded in conjunction with this report. Therefore you are currently out of compliance with the State Water Resources Control Board GeoTracker submittal requirements.

Since the submittal of the Phase II Site Assessment in which exceedances of the Urgent Response Action Level (URAL) for TCE were reported, ACEH has worked with Paul King and Gary Bates to assess the risk to building occupants, collect additional indoor air samples, and implement mitigations measures. Although this data has been submitted to ACEH via email correspondence, an interim remedial action report has not been formally submitted. Therefore, please submit an Interim Remedial Action Report to ACEH by October 2, 2015.

Lastly, please submit a work plan for additional assessment of the PCE release from the former dry cleaner by October 16, 2015.

Thank you for your cooperation.

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Nowell, Keith, Env. Health
Sent: Friday, September 11, 2015 4:46 PM
To: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: RO2981 - Red Hanger Kleeners

Dilan,

I just spoke (very) briefly with Paul King and Gary Bates. Results of an interim sampling of the common areas still show ARAL exceedances. The samples were collected in the 3rd floor men's room and 2nd floor hallway. The next steps will include increasing the ventilation.

They will get back to us early next week.

Keith

Keith Nowell PG, CHG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda , CA 94502-6540
phone: 510 / 567 - 6764
fax: 510 / 337 - 9335
email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

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Nowell, Keith, Env. Health

From: Nowell, Keith, Env. Health
Sent: Friday, September 11, 2015 4:46 PM
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Subject: RO2981 - Red Hanger Kleeners

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fax: 510 / 337 - 9335
email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, September 03, 2015 8:14 PM
To: Roe, Dilan, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; dave@bblandlaw.com; ronpatelvidge@gmail.com; Nowell, Keith, Env. Health
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - Post-mitigation air sampling

Hi Dilan,

As we discussed today on the telephone, although the laboratory that has been performing the recent indoor air sampling analysis (Eurofins/ Air Toxics) has told us that we should be able to receive SIM-certified 24 hour flow controllers initially by this past Monday and most recently by the end of this week, they notified us today that they still do not have SIM-certified 24 hour flow controllers available and do not expect any to be available until possibly the end of next week.

Based on this information you and I discussed today deploying a limited number of SIM-certified 24-hour flow controllers to verify that indoor air quality has been mitigated at locations where ARAL concentrations were exceeded for TCE, pending receipt of the Eurofins/ Air Toxics sampling media and performing a more comprehensive post-mitigation indoor air sampling event.

Based on the limited available sampling media that P&D received yesterday in our office from K-Prime of Santa Rosa for a different project, after you and I spoke P&D deployed today (9/3/15) SIM-certified 24-hour flow controllers and SIM-certified 6-liter Summa canisters at locations IA4 (on the second floor in the hallway), IA5 (on the third floor in the men's room) and one ambient air sample (at the same location we have previously placed ambient air sampling media).

We will retrieve the sampling media and send it to K-Prime on Friday 9/4/15 with the sample results anticipated by the end of Tuesday 9/8/15 following the Labor Day weekend.

I will let you know once we get the sample results.

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, September 03, 2015 5:41 PM
To: Roe, Dilan, Env. Health
Subject: RO 2981 Red Hanger Cleaners - No sit down mtg next week

Hi Dilan,

I spoke with Gary Bates and he said that he will not select the consultant for the next phase of work by the middle of next week, so there will not be a request for a meeting for next week. Thank you!

Paul

In a message dated 9/3/2015 12:00:11 Pacific Daylight Time, Dilan.Roe@acgov.org writes:

> Hi Paul – Look at FS/CAP for RO0000199 (Appendix D and elsewhere in text for garage calcs)
>
> Next week I have availability only on Wednesday – I will tentatively block it out but need you to confirm asap

Dilan Roe, P.E.

Program Monager - Land Use & Local Oversight Program

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502

510.567.6767; Ext. 36767

QIC: 30440

dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: PDKing0000@aol.com [mailto:PDKing0000@aol.com]
Sent: Thursday, September 03, 2015 11:53 AM
To: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Subject: Reminder to check mtg availability for next week and garage ventilation calcs

Thank you!

Paul H. King
Professional Geologist

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(510) 387-6834 cellular
Paul.King@pdenviro.com

=

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Friday, August 28, 2015 5:20 PM
To: Roe, Dilan, Env. Health
Cc: Nowell, Keith, Env. Health; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; dave@bblandlaw.com
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - Proposed post-mitigation test

Hi Dilan,

As you and I and Gary Bates discussed on the telephone this afternoon,the proposed post-mitigation air sample collection locations and the associated rationale are as follows:

o IA2- one sample for the first floor at the back of the building at the locations where IA2 has previously been sampled (where the dry cleaning machines were formerly located).

o IA4 - second floor hallway next to elevator to verify ARAL condition is no longer present.

o IA5 - 3rd floor men's room to verify ARAL condition is no longer present.

o IA6 - 2nd floor Health Center (suite 201). A pea trap was dry and we got a lot of smoke in this space. This is also near the 5/29/15 IA3 location at the front of the building on the second floor.

o IA7 - CPA (suite 203), per tenant request for re-test in office adjacent to elevator shaft.

o IA9 - Kumon Learning Center (suite 301) - This is also located at the front of the building.

o New location IA12 (suite 304 across from third floor men's room) per request of tenant.

o Elevator shaft - to evaluate sealing of suspected conduit for PCE.

o BG2 - ambient air sample where we previously sampled.

A duplicate sample will be collected at one of the indoor locations.

This results in 9 samples plus one duplicate, for a total of 10 analyses.

I put in a call to the lab Friday morning 8/28/15 and they said that they did not have the requested sampling media available for the beginning of this coming week, but that they expected to have the media delivered for sampling by the end of next week. I will let you know once I get a delivery date for the sampling media.

Please let me know if you need any additional information.

Thank you!

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Friday, August 28, 2015 5:06 PM
To: Roe, Dilan, Env. Health
Cc: Nowell, Keith, Env. Health; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; dave@bblandlaw.com
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - 8/28/15 Tenant Call

Hi Dilan,

Susan Kolodny of suite 304 at the subject called me today 8/28/15 and we spoke from 2:05 to 2:21 PM. I asked if she was calling about the recent notification regarding PCE and TCE and she said yes.

She asked if she should be concerned. I said that I didn't think so because we had performed mitigation by cleaning the carpet almost a week ago, sealing cracks and a gap in the elevator pit, and smoke tested and secured the pipes where smoke was observed to be entering the building earlier this week. These actions were performed to reduce exposure to the detected chemicals.

She asked if I was a tenant in the building if I would get checked at a doctor and I said no. I said that background benzene concentrations outside of buildings in the Bay Area from car exhaust are commonly above residential and sometimes also near exceeding commercial industrial standards. I said that the American Cancer Society website says that 500,000 people per million will get cancer during their lifetime in America, and that the standard of care established by the federal government and adopted by California is that if one more person per million is expected to get cancer during their lifetime from exposure to a chemical we start talking about it and if 100 more people are expected to get cancer during their lifetimes from exposure we do something to reduce the exposure. The ambient petroleum background concentrations already result in a few in a million more people having the risk of getting cancer in their lifetimes, the detected PCE and TCE concentrations resulted in a similar amount of risk, and for this reason I personally wouldn't be concerned.

Susan asked if I thought that she should be concerned about past exposure because she has been an occupant of the building for the past 20 years, and I said that I had no idea how long these chemicals had been in the building, and that I thought that no one had that information, so I had no way of knowing how long anyone had been exposed. I said that it appears that the source of the PCE was the former dry cleaner, and that we had checked with the guy who cleans the carpets and he said that he only used green chemicals, so we didn't know the source of the TCE but thought that maybe someone had taken it upon themselves to clean a coffee stain from the carpet, resulting in the residual chemical in the carpet getting into the air.

I said that the heightened awareness regarding TCE in air is based on recent work showing that TCE can result in defects for developing fetuses during the first trimester. I also said that the OSHA and CalOSHA standard (the PEL) for exposure to a chemical in air is 8 hours per day for 40 hours per week for 40 years with no adverse health effects, that the TCE PEL is 562,000 units, and that we detected TCE concentrations of about 4 to 8 units or less.

Susan said that this helped her to better understand and thanked me.

Paul

Paul H. King
Professional Geologist

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(510) 658-6916 telephone
(510) 834-0152 facsimile

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, August 27, 2015 11:26 AM
To: Roe, Dilan, Env. Health
Cc: Nowell, Keith, Env. Health; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; dave@bblandlaw.com
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - Status at End of 8/26/15
Attachments: 0461 8-26-2915 Smoke Test 003.jpg; 0461 8-26-2915 Smoke Test 005.jpg; 0461 8-26-2915 Smoke Test 027.jpg; 0461 8-26-2915 Smoke Test 029.jpg

Hi Dilan,

We successfully completed steam cleaning the carpet on the second and third floors and also in the stairwells and on the stairs on Saturday 8/22/15. We also successfully completed the following tasks on Wednesday 8/26/15:

o sealing the gap that we recently identified in the elevator pit floor identified between the elevator piston sleeve and the floor slab, and the annular space between the sleeve and the hydraulic jack piston casing (see attached digital image 003),

o sealing cracks and penetrations in the floor slab for the first floor (see attached digital images 027 and 029)

o smoke testing for identification of locations where sewer gases could be entering the building (see attached digital image 005).

The smoke testing identified an uncapped vent in the first floor space at the back of the building (see digital image 005), a pipe plugged with dirt on the first floor at the back of the building, gaps below the toilets in the men's and women's rooms on the second and third floors, and a pea trap in suite 201 that had dried out. All of these locations were sealed or repaired and subsequent re-testing with smoke did not result in smoke appearing inside the building.

Our next steps are to collect post-mitigation confirmation air samples and define steps necessary to complete subsurface investigation/remediation to move the case to closure.

Please let me know your availability to review these next steps.

Thank you!

Paul

Paul H. King
Professional Geologist

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(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

In a message dated 8/17/2015 20:42:21 Pacific Daylight Time, pdking0000@aol.com writes:

> Hi Keith,

After you and I spoke on the telephone this afternoon, I was able to review the sample results with Gary Bates of EFI Global on the telephone.

You will find attached the following documents related to the 8/13/15 air sample results.

o 1508200_d.pdf. This is the lab report for common area, tenant space, and ambient air 24-hour samples collected 8/13/15. The only location where the TCE 8.0 ug/m3 ARAL was exceeded was 8.1 ug/m3 at IA5 on the third floor in the men's bathroom.

o 1508200COC.pdf. This is the chain of custody document for the lab report.

o 0461 Summary of Indoor Air Sample Results 081715 DRAFT 1.xls. This is an Excel summary table of air results to date.

o 6239 College Ave Floor Plans 081715 DRAFT 3.pdf. These floor plans show the sample collection locations.

Please note that the HVAC unit for suite 303 was replaced on the morning that the Summa canisters were deployed on 8/12/15, and that the HVAC for suite 303 was not started until after the Summa canisters were retrieved on 8/13/15.

As we discussed near the end of today when we discussed the 8/13/15 air sample results, two of the Summa canisters that we received from the lab did not have vacuum. This did not adversely impact our sampling program because the Kumon Learning Center space was smaller than we had originally anticipated (resulting in 1 and not 2 Summa canisters being deployed in this tenant space) and one of the therapy suites on the third floor was not accessible.

As we also discussed, we are preparing to shampoo the carpet on the second and third floor, and we are also having the sewer vent piping evaluated for air leaks, particularly where it is visible in the second floor closet located behind (immediately to the east) of the bathrooms and where I have recently been told there have historically been tenant reports of sewer odors.

We are also preparing a tenant notification that although TCE has been detected in the second floor hallway and in the third floor men's room at concentrations requiring reduction, we have not detected TCE in any tenant spaces at concentrations requiring immediate action, and that we are taking immediate action to reduce the elevated TCE concentrations in the second floor hallway and third floor men's room as described above.

Although I am out of town, I will be available by cell phone to discuss the results with you on Tuesday 8/18/15.

Thank you!

Paul

Paul H. King
Professional Geologist

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Oakland, CA 94610

(510) 658-6916 telephone
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Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Saturday, August 22, 2015 6:06 PM
To: Roe, Dilan, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; wkochenderfer@cs.com; dave@bblandlaw.com; ronpatelvidge@gmail.com; Nowell, Keith, Env. Health
Subject: Re: RO 2981 Red Hanger Cleaners at 6239 College Ave - second floor floor plan
Attachments: 082115 2nd Floor CPA for Resampling.pdf

Attached is the floor plan referenced in the previous e-mail.

Paul

In a message dated 8/22/2015 08:12:44 Pacific Daylight Time, PDKing0000@aol.com writes:

> Hi Dilan,
>
> I apologize for the miscommunication. As you know, there are many different parties (multiple consultants, tenants, tenant clients, multiple contractors, building management, owner, regulatory agency, etc.) involved with many moving parts and all of these actions are occurring on an expedited basis.
>
> We are rapidly implementing the identified remedial solutions with carpet shampooing occurring today Saturday 8/22/15 and elevator pit sealing and sewer pipe smoke testing and any associated leak sealing to be completed by the end of this coming Wednesday 8/26/15. We will also perform a thorough survey of the first floor floor slab and seal any observed gaps, particularly at any identified points of penetration.
>
> Certainly I can prepare the requested Fact Sheet, which at this point (in light of the content of the notification that has already been released) would be very well-timed to provide a more thorough follow-up information package discussing the documentation of the stabilization of the ARAL conditions and also identifying remaining steps associated with the subsurface investigation and any potential remediation of the former dry cleaner.
>
> Please let me know if that works for you.
>
> Thank you!
>
> Paul

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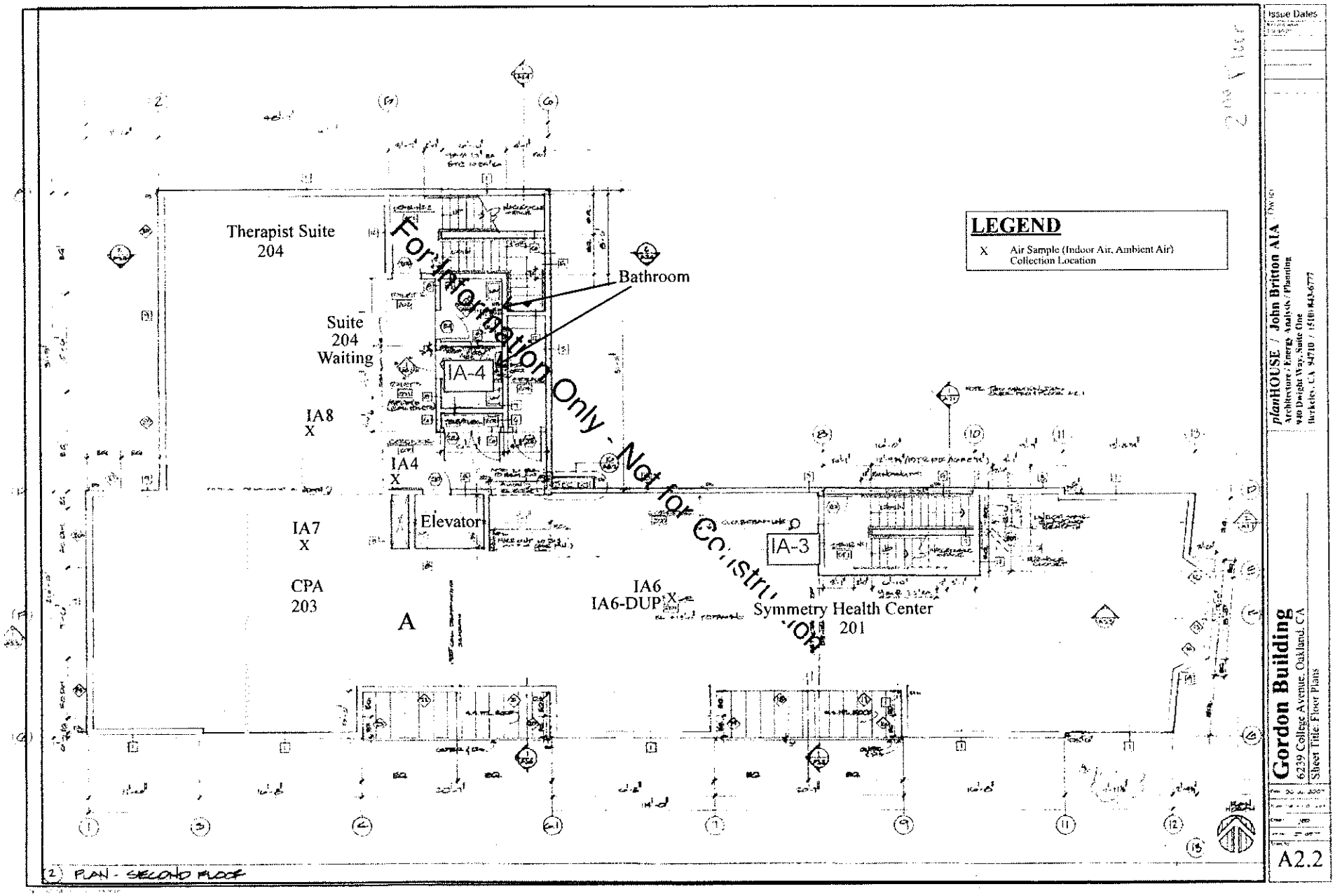
(510) 387-6834 cellular
Paul.King@pdenviro.com

In a message dated 8/21/2015 19:42:53 Pacific Daylight Time, Dilan.Roe@acgov.org writes:

> I just read this email and am disappointed – Paul this is not what we discussed.



2 PLAN - SECOND FLOOR

Issue Dates

planHOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6777

Gordon Building
6239 College Avenue, Oakland, CA

Sheet Title: Floor Plans

A2.2

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Saturday, August 22, 2015 6:01 PM
To: Roe, Dilan, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; wkochenderfer@cs.com; dave@bblandlaw.com; ronpatelvidge@gmail.com; Nowell, Keith, Env. Health
Subject: Re: RO 2981 Red Hanger Cleaners at 6239 College Ave - 8/21/15 call from tenant

Hi Dilan,

I received a call from the tenant Peter Abel of suite 203 (the CPA office, telephone 510-420-8188) for the subject site on 8/21/15 at 4:09 PM. I returned his call on 8/21/15 at 4:30 PM, and we spoke for about 6 minutes. He asked what prompted the testing, and I said that it was routine testing associated with investigation of the former dry cleaner downstairs. He requested that when we re-test the air following implementation of the remedial solutions that we test in a specific office in his suite. We discussed the location of the office and determined that it is the office located adjacent to the elevator shaft (see location A on the attached second floor floor plan).

I have not received any other calls related to the site, and will let you know if I receive any other calls.

Paul

In a message dated 8/22/2015 08:12:44 Pacific Daylight Time, PDKing0000@aol.com writes:

> Hi Dilan,
>
> I apologize for the miscommunication. As you know, there are many different parties (multiple consultants, tenants, tenant clients, multiple contractors, building management, owner, regulatory agency, etc.) involved with many moving parts and all of these actions are occurring on an expedited basis.
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> Paul
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> Paul H. King
> Professional Geologist
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> Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: Roe, Dilan, Env. Health
Sent: Friday, August 21, 2015 7:02 PM
To: 'PDKing0000@aol.com'; Nowell, Keith, Env. Health
Cc: 'Gary_Bates@efiglobal.com'; 'patrick@ellwoodcommercial.com'; 'ronpatelvidge@gmail.com'; 'wkochenderfer@cs.com'; 'dave@bblandlaw.com'
Subject: RE: RO 2981 Red Hanger Cleaners at 6239 College Ave - Draft tenant notification

Hi Paul:

I will be on vacation on Monday and Tuesday and Keith is out for several weeks. Therefore, once you have revised the notification please move forward with distribution.

Thanks you

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

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From: Roe, Dilan, Env. Health
Sent: Friday, August 21, 2015 11:13 AM
To: 'PDKing0000@aol.com' <PDKing0000@aol.com>; Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; wkochenderfer@cs.com; dave@bblandlaw.com
Subject: RE: RO 2981 Red Hanger Cleaners at 6239 College Ave - Draft tenant notification

Hi Paul:

Please revise the draft tenant notification for the subject site in accordance with the DTSC Vapor Intrusion Public Participation Advisory (March 2012) including but not limited to Appendix C – Indoor Air Sampling

I have attached a word document of a sample fact sheets/notification from Alameda County for your use as a starting template.

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440

Roe, Dilan, Env. Health

From: Roe, Dilan, Env. Health
Sent: Friday, August 21, 2015 11:13 AM
To: 'PDKing0000@aol.com'; Nowell, Keith, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; wkochenderfer@cs.com; dave@bblandlaw.com
Subject: RE: RO 2981 Red Hanger Cleaners at 6239 College Ave - Draft tenant notification
Attachments: RO#3120_ Updated Fact Sheet_PilotTest and Indoor Air Mitigation-wrl-2014-09-19-md-DV-md-dr.docx

Hi Paul:

Please revise the draft tenant notification for the subject site in accordance with the DTSC Vapor Intrusion Public Participation Advisory (March 2012) including but not limited to Appendix C – Indoor Air Sampling

I have attached a word document of a sample fact sheets/notification from Alameda County for your use as a starting template.

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
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QIC: 30440
dilan.roe@acgov.org

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From: PDKing0000@aol.com [mailto:PDKing0000@aol.com]
Sent: Thursday, August 20, 2015 1:53 PM
To: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; wkochenderfer@cs.com; dave@bblandlaw.com
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - Draft tenant notification

Hi Dilan and Keith,

Per my discussion with Dilan yesterday, you will find below a draft tenant notification for the subject site.

Please let me know if you have any questions or comments.

Thank you!

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.

55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

****

8/20/2015

Dear Tenant,

Detectable concentrations of the chemical trichloroethene (TCE) have been identified in air in the building at 6239 College Avenue in Oakland. The source of the TCE is presently unknown. The TCE air concentrations in the hallway on the second floor and in a bathroom located on the third floor marginally exceed concentrations which require reduction. Testing within the suites at the property did not identify TCE concentrations in air exceeding levels requiring action to reduce the TCE air concentrations at this time.

In addition, a dry cleaner was formerly located on the first floor of the building, and detectable concentrations of the dry cleaning chemical tetrachloroethene (also called perchloroethene, PCE) have been detected in air in common areas (hallway and bathroom)and in tenant spaces at concentrations that do not require immediate action, but were detected at concentrations that require further evaluation.

We are providing you with this notification as a precaution and to advise you that women who are pregnant or who suspect that they might be pregnant are advised to not enter the premises until TCE air concentrations in the building are reduced.

We initially received information on July 28, 2015 that there were detectable concentrations of TCE and PCE in common areas (hallway and bathroom) in the building, and after conferring with the Alameda County Department of Environmental Health (ACDEH) we collected additional common area air samples to confirm the initial results. Based on review of the confirmation air sample results and after conferring with the ACDEH, we collected air samples in common areas and in tenant spaces. We received these most recent results on August 17, 2015 with the results confirming the presence of TCE and PCE in tenant spaces as described above.

We are taking immediate action to identify the source of the TCE and we are also taking immediate action to reduce the TCE concentrations in air by performing the following actions. We will shampoo the carpet on the second and third floor in the hallway to address the possibility of the source being located in the carpet. We are also having the sewer vent piping evaluated for air leaks to address the possibility of the TCE and PCE source being located in the sewer pipes, and we will be sealing any gaps in the elevator pit floor. We will then perform confirmation air sampling and let you know the results.

This work is being performed with supervision by the ACDEH.

If you have any questions or need any additional information, please do not hesitate to contact the following:

- Dilan Roe at the ACEHD at 510-567-6767 or
- Patrick Ellwood at 510-238-9111 or
- Paul King of P&D Environmental, Inc. at 510-658-6916.

Fact Sheet on Environmental Assessment

Swiss Valley Cleaners Site

1395 MacArthur Boulevard
San Leandro, California
Alameda County
ACEH File No. RO0003120
July 2014

This fact sheet is being provided to describe site background, past work to investigate site contamination, next steps, the oversight process for the site, and how you can obtain more information.

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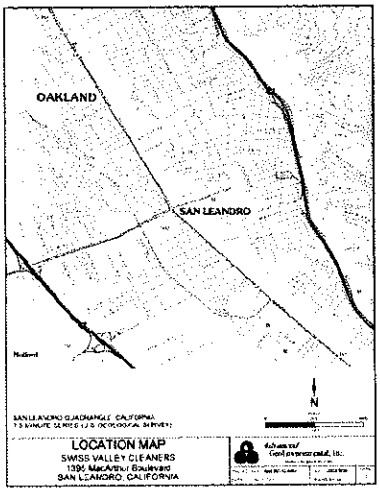
Summer, 2014

The Alameda County Environmental Health Department (ACEH) is issuing this fact sheet to inform you of ongoing investigation work at the Swiss Valley Cleaners (site), located at 1395 MacArthur Boulevard in San Leandro, California (Figure1).



The purpose of the investigation work is to gather more information on the nature and extent of contamination within the dry cleaning suite (soil, groundwater, soil vapor, and indoor air), as well as off-site (soil and soil vapor) and in indoor air samples in suites adjacent to the dry cleaners, within the building. This fact sheet contains information concerning site background, results of recent investigations, remediation activities, and information contacts. A glossary of certain terms also is included.

Site Background - The Swiss Valley Cleaners site currently is situated within a commercial area of the Estudillo Shopping Center just west of interstate 580 on the corner of MacArthur Boulevard and Joaquin Avenue. The subject site is in a strip mall on a 1.76-acre lot with several operating businesses within suites at ~~of the mall~~facility~~~~. The subject site was a small retail dry-cleaner for 30 years or more, prior to initial site investigations. The site currently houses a 55-gallon capacity closed-loop, chemical dry cleaning machine, which is bolted to the floor and recently used green chemicals as

a dry cleaning agent. Prior to 2001, the dry cleaning operation utilized tetrachloroethylene (PCE) as the dry cleaning solvent, until the machine was replaced with the current machine. Volatile Organic Compounds (VOCs) such as PCE are able to move in the environment, from soil to groundwater, from groundwater to soil, and from groundwater or soil to air. Of particular interest is the potential for movement of VOCs into the inside of buildings where people could be exposed to contaminated air. This process is called soil-vapor intrusion into indoor air.

Glossary of Terms

Soil Gas—Soil gas refers to the air that is present in the open spaces between soil particles between the ground surface and the water table. It includes air (primarily oxygen and nitrogen, like above ground), water vapor, and occasionally pollutants.

Volatile organic compounds (VOCs)—VOCs are organic liquids, including many common solvents that readily evaporate at temperatures normally found at ground surface and at shallow depths. Many VOCs are known human carcinogens. Examples of VOC usage include dry cleaning solvent, carburetor cleaner, brake cleaner, and paint solvents.

Recent Investigation Activities - Environmental investigations have been performed at the site from 1998 through 2014; these investigations have included sampling and analysis of soil, soil-vapor, groundwater and indoor air to assess the type and extent of contamination at the site. In total, laboratory analysis has been conducted on 182 samples collected from 96 borings and indoor air sampling containers.

Investigations performed at the site have identified that VOCs, specifically PCE, leaked into the subsurface beneath the subject building. Soil and soil vapor samples have only been collected to date beneath the dry cleaning suite; however, work is planned to collect additional soil and soil vapor samples beneath adjacent suites in order to define the lateral extent of the PCE contamination. Limited groundwater data has been collected, but additional data will also be collected in the near future.

Concentrations of PCE have been also been detected in

subsurface soil-vapor samples in the parking lot and surrounding the perimeter of the Estudillo Plaza shopping center.

Concentrations reported in soil-vapor and indoor air samples collected beneath the dry cleaning suite were found at concentrations greater than applicable regulatory agency screening levels requiring additional investigation. The presence of these chemicals at concentrations exceeding regulatory screening levels does not indicate that adverse impacts to human health or the environment are necessarily occurring, but rather indicates that a potential for adverse risk may exist and that additional evaluation is warranted.

~~Concentrations of PCE have been also been detected in subsurface soil-vapor samples in the parking lot and surrounding the perimeter of the Estudillo Plaza shopping center.~~

The ~~data collected at the site to date, indicate that the~~ highest concentrations of PCE in ~~subsurface soil-vapor and~~ indoor air are located within the suite associated with dry cleaning at the site and in the adjacent suite located at 1383 MacArthur Boulevard (Solthea Salon & Beauty Supply). Concentrations of PCE over screening levels have also been detected in indoor air samples collected in the Estudillo Plaza Optometry facility located at 1377 MacArthur Boulevard. PCE concentrations were reported in the indoor air of the suite at 1369 MacArthur Boulevard, but were well below established regulatory screening levels requiring further investigation.

Because the screening levels were exceeded and indoor air samples indicated vapor intrusion of PCE into a number of ~~several~~ suites at the site, Advanced GeoEnvironmental Inc. (AGE) was recently requested to evaluate health risks associated with the contamination and the analysis indicated that there does not appear to be an imminent risk, but these concentrations still require clean-up.

Cleanup of Environmental Impacts – As discussed, VOCs have been detected in soil, groundwater, soil-vapor and indoor air samples at the site. In general, soil and groundwater concentrations reported during the investigations performed at the site are below regulatory screening levels. However, ~~as discussed above,~~ soil-vapor concentrations reported during investigative activities are well above regulatory screening levels and are likely the cause of PCE vapors intruding into the subject facility and immediately surrounding units. PCE vapor concentrations reported in soil-vapor and indoor air ~~do~~ require remediation (clean-up) at this time to mitigate ~~reduce~~ the potential for health risks by reducing concentrations in both soil and soil vapor.

~~Planned~~ **Soil-Vapor and Indoor Air Mitigation** and Remediation - AGE has been working with ACEH to plan and implement corrective action at the site in conjunction with site use. Currently, AGE is determining the appropriate remedial measures for removal of residual soil-vapor impact from the subsurface at the site.

Initially~~,~~ mitigation measures are being implemented currently ~~and although health risks do not appear to be imminent,~~ due to elevated VOC impact to indoor air with the ~~. AGE has begun to~~ installation of a fresh air circulation system in the dry cleaning suite and immediately adjacent suites to increase fresh air intake and exhaust into the ~~adjacent~~ suites. This will aid in reducing the overall residual impacts to indoor air.

A pilot test, installation of fresh air and exhaust fans in the subject facility and modifications to existing HVAC systems in the adjacent suites were presented as recommendations in the AGE-prepared, *Indoor Air Sampling Report – Second Quarter 2014*, dated July 1, 2014. AGE conducted a soil vapor extraction pilot test in August 2014 within the dry cleaning suite to determine the effectiveness of this remedial technology on the residual contaminate mass at the site and the effectiveness of reducing the soil-vapor concentrations of PCE.

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Next Steps – ~~AGE has implanted~~ will also be implementing ~~a soil vapor extraction pilot test within the subject facility to determine the effectiveness of the most likely remedial technology on the residual contaminate mass at the site and the effectiveness of reducing the soil-vapor concentrations of PCE.~~ Based on results of the pilot test, it is likely that a dedicated remediation system will be installed to continue to remove the PCE impact soil-vapor from the site. This will include the installation of additional vapor extraction wells and a temporary remediation system and enclosure.

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~~Next Steps – The proposed pilot test, installation of fresh air and exhaust fans in the subject facility and modifications to existing HVAC systems in the adjacent suites were presented as recommendations in the AGE-prepared, *Indoor Air Sampling Report – Second Quarter 2014*, dated 01 July 2014. AGE has performed the proposed pilot test in August 2014 and anticipates installing a permanent remediation system to remediate subsurface impact in the subject unit. Additionally, modifications to~~

~~the ventilation system are underway and fresh air and exhaust fans are being installed.~~

The entire case file can be viewed over the internet on the ACEH at http://www.acgov.org/aceh/lop/ust.htm or at the State of California Water Resources Control Board website at http://geotracker.swrcb.ca.gov.

Please send written comments regarding the investigation and proposed actions to Mark Detterman at the address below.

For More Information

Please contact any of the following individuals with questions or concerns you may have:

Mark Detterman
Alameda County Environmental Health Case Manager
510-567-6876
mark.detterman@acgov.org

Daniel Villanueva
Advanced GeoEnvironmental Inc.; Consultant
209-467-1006
dvillanueva@advgeoenv.com

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, August 20, 2015 1:22 PM
To: Roe, Dilan, Env. Health; Nowell, Keith, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; wkochenderfer@cs.com; dave@bblandlaw.com
Subject: Fwd: FW: College Ave - RO 2981 Red Hanger Cleaners at 6239 College Ave

Hi Dilan and Keith,

As Dilan and I discussed yesterday, below are my initial comments on the 7/27/15 subject site report.

It is my understanding that the report will be re-issued based on the revised lab report for indoor air samples IA4 and IA5.

Paul

From: PDKing0000@aol.com
To: patrick@ellwoodcommercial.com
CC: elvidge@sbcglobal.net
Sent: 8/2/2015 20:10:53 Pacific Daylight Time
Subj: Re: FW: College Ave

Hi Patrick and Ron,

I have performed a preliminary review of the 7/27/15 Youngdahl report for the former Red Hangar Cleaners on College Avenue in Oakland, and I have the following preliminary comments. Please note that Appendix E is the indoor air evaluation report.

General comments include the following:

o Performing the statistical analysis that they did on the soil gas samples that were collected at a depth of 5 feet may not be considered a valid method of evaluating risk at the site. Usually a default of the highest detected value should be used for risk assessment, and statistical analysis of data when evaluating risk should be performed following discussions with the regulatory oversight agency.

o It is unclear why they analyzed the indoor air samples for soil gas petroleum issues (oxygen, carbon dioxide, methane).

The report does not appear to have been prepared using local (County, RWQCB, or DTSC) guidance as follows:

o Sub-slab soil gas result interpretation. The PCE results were compared to the soil gas PCE commercial ESLs of 2,100 ug/m3, and what they should have compared the results to is 20 times Table E-3 indoor air PCE commercial value whiich is 42 ug/m3. So any PCE concentration greater than 42 ug/m3 that is under the slab is likely to result in some form of vapor intrusion. The detected PCE sub-slab soil gas concentrations were 610, 5,200, and 1,100 ug/m3.

o The sample duration for indoor air was for 8 hours instead of 24 hours.

o The indoor air results were compared to the US EPA RSL for PCE commercial air value of 47 ug/m3. They should have used the DTSC HERO May 2015 Human Health Risk Assessment (HHRA) Note 3 which says not to use the US EPA RSL in California for PCE in indoor air and instead use their California-approved Table 3 value of 2.1 ug/m3.

Roe, Dilan, Env. Health

From: Bates, Gary <Gary_Bates@efiglobal.com>
Sent: Thursday, August 20, 2015 1:02 PM
To: Nowell, Keith, Env. Health; 'Ron Elvidge'; 'Patrick Ellwood'
Cc: gkongwashworld@comcast.net; 'pdking0000@aol.com'; Roe, Dilan, Env. Health
Subject: RE: Voluntary Remedial Agreement Case RO2981 (GeoTracker Global ID T10000000416) - Read Hanger Kleaners, 6235-6239 College Ave., Oakland

Keith, please address the Alameda County Environmental Health (ACEH), oversight fee letter to EFI Global at the address below. Also as indicated in an email prepared by Paul King dated 8/16/2015, the laboratory indicated the dilution factors had been miscalculate for two samples collect from the second and third floors of the building and they were going to re-issue a new laboratory report. EFI Global has received the new laboratory results and is in the process of preparing a new report with the revised laboratory data included.

Gary L. Bates P. G.
Director, Environmental Remediation Services
EFI Global, Inc.
Address: 11000 Richmond Avenue, Suite 250 Houston,TX 77042
Phone: 832-518-5145 I **TF:** 866-464-2127 I **fax:** 832-518-5147 I **mob:** 713-562-6773
Email: gary_bates@efiglobal.com I **web:** www.efiglobal.com
Engineering I Fire Investigations I Environmental I Specialty & Consulting Services

From: Nowell, Keith, Env. Health [mailto:Keith.Nowell@acgov.org]
Sent: Thursday, August 20, 2015 10:42 AM
To: 'Ron Elvidge'; Bates, Gary; 'Patrick Ellwood'
Cc: gkongwashworld@comcast.net; 'pdking0000@aol.com'; Roe, Dilan, Env. Health
Subject: Voluntary Remedial Agreement Case RO2981 (GeoTracker Global ID T10000000416) - Read Hanger Kleaners, 6235-6239 College Ave., Oakland

Dear Messrs. Elvidge, Bates, and Ellwood:

Alameda County Environmental Health (ACEH), as lead oversight agency for the subject Voluntary Remedial Agreement (VRA) case, is actively performing review of the case file, including the recently submitted document entitled *Soil Gas Investigation*, dated July 27, 2015, and prepared by YoungDahl Consulting Group, Inc. (YoungDahl). Additionally, ACEH is providing oversight of additional site activities performed by P&D Environmental, Inc., at the direction of Mr. Bates, associated with identified impacts to indoor air by concentrations of trichloroethene (TCE) and tetrachloroethene (PCE) exceeding regulatory action levels.

VRA cases are pay–as-you-go. Recent oversight activities has created a negative balance of $3,297. In order for ACEH to complete the regulatory review and closure process, ACEH will be sending a Request for Funds for a deposit of $10,000 to cover the existing negative balance and to provide a balance for continued oversight.

At this time, it is unclear to ACEH to whom the Request for Funds letter should be sent. ACEH requests the identification of the contact person for the Request for Funds by **August 21, 2015**. This information may be provided via email to Keith Nowell at keith.nowell@acgov.org and cc'ing Dilan Roe at dilan.roe@acgov.org.

Funding is authorized pursuant to Health and Safety Code § 101490. ACEH will charge Responsible Party for all costs, including ACEH staff time. The ACEH hourly charge rate is $174 per hour as of July 1, 2015. The requested funds may or may not be sufficient to provide all necessary regulatory oversight. ACEH will deduct actual costs incurred based upon the

hourly rate specified above. If these funds are insufficient, additional deposit will be requested. Any unused funds will be refunded to the Responsible Party or your designee.

Thank you for your cooperation. ACEH looks forward to working with you and your consultants to advance the case toward closure. As Keith Nowell will be out of the office for the next 2-1/2 weeks commencing on August 21, 2015, please cc Dilan Roe in all email communications.

Regards,
Keith Nowell

Keith Nowell PG, CHG
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda , CA 94502-6540
phone: 510 / 567 - 6764
fax: 510 / 337 - 9335
email: keith.nowell@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

Roe, Dilan, Env. Health

From: pdking0000@aol.com
Sent: Monday, August 17, 2015 8:42 PM
To: Nowell, Keith, Env. Health
Cc: Roe, Dilan, Env. Health; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; pdking0000@aol.com
Subject: RO 2981 Red Hanger Cleaners at 6239 College Ave - 8/13/15 Air Sample Results
Attachments: 1508200_d.pdf; 1508200COC.pdf; 0461 Summary of Indoor Air Sample Results 081715 DRAFT 1.xls; 6239 College Ave Floor Plans 081715 DRAFT 3.pdf

Hi Keith,

After you and I spoke on the telephone this afternoon, I was able to review the sample results with Gary Bates of EFI Global on the telephone.

You will find attached the following documents related to the 8/13/15 air sample results.

o 1508200_d.pdf. This is the lab report for common area, tenant space, and ambient air 24-hour samples collected 8/13/15. The only location where the TCE 8.0 ug/m3 ARAL was exceeded was 8.1 ug/m3 at IA5 on the third floor in the men's bathroom.

o 1508200COC.pdf. This is the chain of custody document for the lab report.

o 0461 Summary of Indoor Air Sample Results 081715 DRAFT 1.xls. This is an Excel summary table of air results to date.

o 6239 College Ave Floor Plans 081715 DRAFT 3.pdf. These floor plans show the sample collection locations.

Please note that the HVAC unit for suite 303 was replaced on the morning that the Summa canisters were deployed on 8/12/15, and that the HVAC for suite 303 was not started until after the Summa canisters were retrieved on 8/13/15.

As we discussed near the end of today when we discussed the 8/13/15 air sample results, two of the Summa canisters that we received from the lab did not have vacuum. This did not adversely impact our sampling program because the Kumon Learning Center space was smaller than we had originally anticipated (resulting in 1 and not 2 Summa canisters being deployed in this tenant space) and one of the therapy suites on the third floor was not accessible.

As we also discussed, we are preparing to shampoo the carpet on the second and third floor, and we are also having the sewer vent piping evaluated for air leaks, particularly where it is visible in the second floor closet located behind (immediately to the east) of the bathrooms and where I have recently been told there have historically been tenant reports of sewer odors.

We are also preparing a tenant notification that although TCE has been detected in the second floor hallway and in the third floor men's room at concentrations requiring reduction, we have not detected TCE in any tenant spaces at concentrations requiring immediate action, and that we are taking immediate action to reduce the elevated TCE concentrations in the second floor hallway and third floor men's room as described above.

Although I am out of town, I will be available by cell phone to discuss the results with you on Tuesday 8/18/15.

Thank you!

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

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8/17/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: RED HANGER KLEANERS 6239 COLLEGE AVE
Project #: 0461
Workorder #: 1508200

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 8/13/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1508200

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	**BILL TO:**	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	**P.O. #**	
FAX:	510-834-0772	**PROJECT #**	0461 RED HANGER KLEANERS 6239 COLLEGE AVE
DATE RECEIVED:	08/13/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/17/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IA4 (HALLWAY)	Modified TO-15 SIM	0.3 psi	5.2 psi
02A	IA6 (201 HEALTH CTR)	Modified TO-15 SIM	5.9 "Hg	5 psi
03A	IA6 DUP(201 HEALTH CTR)	Modified TO-15 SIM	6.1 "Hg	4.7 psi
04A	IA7 (203 CPA)	Modified TO-15 SIM	7.1 "Hg	4.8 psi
05A	IA8 (SUITE 204)	Modified TO-15 SIM	8 "Hg	5.2 psi
06A	IA5 (MEN'S ROOM)	Modified TO-15 SIM	5.7 "Hg	5 psi
07A	IA9 (301 KUMON)	Modified TO-15 SIM	12.2 "Hg	5.1 psi
08A	IA10 (SUITE 302)	Modified TO-15 SIM	6.9 "Hg	5.2 psi
09A	IA11 (SUITE 303)	Modified TO-15 SIM	5.9 "Hg	4.9 psi
10A	IA11 DUP(SUITE 303)	Modified TO-15 SIM	4.7 "Hg	4.8 psi
11A	BG2 AMBIENT	Modified TO-15 SIM	3.7 "Hg	5.4 psi
12A	Lab Blank	Modified TO-15 SIM	NA	NA
13A	CCV	Modified TO-15 SIM	NA	NA
14A	LCS	Modified TO-15 SIM	NA	NA
14AA	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: _____ DATE: 08/17/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
P & D Environmental
Workorder# 1508200

Eleven 6 Liter Summa Canister (SIM Certified) samples were received on August 13, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample IA7 (203 CPA) due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA4 (HALLWAY)

Lab ID#: 1508200-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.027	0.35	0.13	1.7
Chloromethane	0.066	0.40	0.14	0.82
Chloroform	0.027	0.77	0.13	3.8
Carbon Tetrachloride	0.027	0.065	0.17	0.41
Benzene	0.066	0.088	0.21	0.28
1,2-Dichloroethane	0.027	0.080	0.11	0.32
Trichloroethene	0.027	1.0	0.14	5.6
Toluene	0.027	0.43	0.10	1.6
Tetrachloroethene	0.027	0.55	0.18	3.7
Ethyl Benzene	0.027	1.6	0.12	6.8
m,p-Xylene	0.053	1.4	0.23	6.0
o-Xylene	0.027	0.40	0.12	1.7

Client Sample ID: IA6 (201 HEALTH CTR)

Lab ID#: 1508200-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.52	0.16	2.6
Chloromethane	0.084	0.59	0.17	1.2
Chloroform	0.033	0.67	0.16	3.3
Carbon Tetrachloride	0.033	0.10	0.21	0.63
Benzene	0.084	0.11	0.27	0.34
1,2-Dichloroethane	0.033	0.16	0.14	0.63
Trichloroethene	0.033	0.85	0.18	4.5
Toluene	0.033	0.55	0.12	2.0
Tetrachloroethene	0.033	0.79	0.23	5.4
Ethyl Benzene	0.033	2.7	0.14	12
m,p-Xylene	0.067	2.4	0.29	11
o-Xylene	0.033	0.66	0.14	2.9

Client Sample ID: IA6 DUP(201 HEALTH CTR)

Lab ID#: 1508200-03A

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA6 DUP(201 HEALTH CTR)

Lab ID#: 1508200-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.48	0.16	2.4
Chloromethane	0.083	0.57	0.17	1.2
Chloroform	0.033	0.67	0.16	3.3
Carbon Tetrachloride	0.033	0.098	0.21	0.61
Benzene	0.083	0.087	0.26	0.28
1,2-Dichloroethane	0.033	0.16	0.13	0.63
Trichloroethene	0.033	0.82	0.18	4.4
Toluene	0.033	0.55	0.12	2.1
Tetrachloroethene	0.033	0.76	0.22	5.2
Ethyl Benzene	0.033	2.8	0.14	12
m,p-Xylene	0.066	2.5	0.29	11
o-Xylene	0.033	0.67	0.14	2.9

Client Sample ID: IA7 (203 CPA)

Lab ID#: 1508200-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.087	0.47	0.43	2.3
Chloromethane	0.22	0.61	0.45	1.2
Chloroform	0.087	0.29	0.42	1.4
Trichloroethene	0.087	0.35	0.47	1.9
Toluene	0.087	0.64	0.33	2.4
Tetrachloroethene	0.087	0.49	0.59	3.3
Ethyl Benzene	0.087	0.64	0.38	2.8
m,p-Xylene	0.17	0.62	0.76	2.7
o-Xylene	0.087	0.24	0.38	1.0

Client Sample ID: IA8 (SUITE 204)

Lab ID#: 1508200-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.037	0.47	0.18	2.3
Chloromethane	0.092	0.53	0.19	1.1

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA8 (SUITE 204)

Lab ID#: 1508200-05A

Chloroform	0.037	0.24	0.18	1.1
Carbon Tetrachloride	0.037	0.10	0.23	0.65
Trichloroethene	0.037	0.29	0.20	1.6
Toluene	0.037	0.28	0.14	1.1
Tetrachloroethene	0.037	0.19	0.25	1.3
Ethyl Benzene	0.037	0.14	0.16	0.62
m,p-Xylene	0.074	0.19	0.32	0.82
o-Xylene	0.037	0.092	0.16	0.40

Client Sample ID: IA5 (MEN'S ROOM)

Lab ID#: 1508200-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.47	0.16	2.3
Chloromethane	0.083	0.66	0.17	1.4
Chloroform	0.033	1.6	0.16	7.6
Carbon Tetrachloride	0.033	0.11	0.21	0.69
Benzene	0.083	0.14	0.26	0.44
1,2-Dichloroethane	0.033	0.061	0.13	0.25
Trichloroethene	0.033	1.5	0.18	8.1
Toluene	0.033	0.72	0.12	2.7
Tetrachloroethene	0.033	0.81	0.22	5.5
Ethyl Benzene	0.033	0.94	0.14	4.1
m,p-Xylene	0.066	0.90	0.29	3.9
o-Xylene	0.033	0.26	0.14	1.1

Client Sample ID: IA9 (301 KUMON)

Lab ID#: 1508200-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.046	0.51	0.22	2.5
Chloromethane	0.11	0.67	0.24	1.4
Chloroform	0.046	0.42	0.22	2.0
Carbon Tetrachloride	0.046	0.10	0.29	0.66

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA9 (301 KUMON)

Lab ID#: 1508200-07A

Benzene	0.11	0.15	0.36	0.47
1,2-Dichloroethane	0.046	0.077	0.18	0.31
Trichloroethene	0.046	0.52	0.24	2.8
Toluene	0.046	1.3	0.17	4.9
Tetrachloroethene	0.046	0.70	0.31	4.7
Ethyl Benzene	0.046	1.1	0.20	4.6
m,p-Xylene	0.091	1.0	0.40	4.5
o-Xylene	0.046	0.33	0.20	1.4

Client Sample ID: IA10 (SUITE 302)

Lab ID#: 1508200-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.48	0.17	2.4
Chloromethane	0.088	0.59	0.18	1.2
Chloroform	0.035	0.51	0.17	2.5
Carbon Tetrachloride	0.035	0.10	0.22	0.64
Benzene	0.088	0.13	0.28	0.42
1,2-Dichloroethane	0.035	0.055	0.14	0.22
Trichloroethene	0.035	0.65	0.19	3.5
Toluene	0.035	0.63	0.13	2.4
Tetrachloroethene	0.035	0.71	0.24	4.8
Ethyl Benzene	0.035	0.54	0.15	2.3
m,p-Xylene	0.070	0.54	0.30	2.3
o-Xylene	0.035	0.18	0.15	0.80

Client Sample ID: IA11 (SUITE 303)

Lab ID#: 1508200-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Chloromethane	0.083	0.53	0.17	1.1
Chloroform	0.033	0.14	0.16	0.69
Carbon Tetrachloride	0.033	0.10	0.21	0.66

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA11 (SUITE 303)

Lab ID#: 1508200-09A

1,2-Dichloroethane	0.033	0.16	0.13	0.63
Trichloroethene	0.033	0.17	0.18	0.90
Toluene	0.033	0.27	0.12	1.0
Tetrachloroethene	0.033	0.14	0.22	0.96
Ethyl Benzene	0.033	0.16	0.14	0.70
m,p-Xylene	0.066	0.17	0.29	0.73
o-Xylene	0.033	0.059	0.14	0.26

Client Sample ID: IA11 DUP(SUITE 303)

Lab ID#: 1508200-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.49	0.16	2.4
Chloromethane	0.078	0.57	0.16	1.2
Chloroform	0.031	0.12	0.15	0.61
Carbon Tetrachloride	0.031	0.090	0.20	0.57
1,2-Dichloroethane	0.031	0.14	0.13	0.59
Trichloroethene	0.031	0.16	0.17	0.85
Toluene	0.031	0.25	0.12	0.95
Tetrachloroethene	0.031	0.13	0.21	0.89
Ethyl Benzene	0.031	0.14	0.14	0.62
m,p-Xylene	0.063	0.16	0.27	0.70
o-Xylene	0.031	0.062	0.14	0.27

Client Sample ID: BG2 AMBIENT

Lab ID#: 1508200-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.50	0.15	2.5
Chloromethane	0.078	0.54	0.16	1.1
Carbon Tetrachloride	0.031	0.096	0.20	0.60
Toluene	0.031	0.18	0.12	0.68
Ethyl Benzene	0.031	0.031	0.14	0.14
m,p-Xylene	0.062	0.086	0.27	0.37

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: BG2 AMBIENT

Lab ID#: 1508200-11A

o-Xylene	0.031	0.048	0.14	0.21

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Client Sample ID: IA4 (HALLWAY)

Lab ID#: 1508200-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081415sim**	**Date of Collection: 8/13/15 1:28:00 PM**	
Dil. Factor:	**1.33**	**Date of Analysis: 8/14/15 06:14 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.027	0.35	0.13	1.7
Freon 114	0.027	Not Detected	0.18	Not Detected
Chloromethane	0.066	0.40	0.14	0.82
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
Chloroethane	0.066	Not Detected	0.18	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.053	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
1,1-Dichloroethane	0.027	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.027	Not Detected	0.10	Not Detected
Chloroform	0.027	0.77	0.13	3.8
1,1,1-Trichloroethane	0.027	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.027	0.065	0.17	0.41
Benzene	0.066	0.088	0.21	0.28
1,2-Dichloroethane	0.027	0.080	0.11	0.32
Trichloroethene	0.027	1.0	0.14	5.6
Toluene	0.027	0.43	0.10	1.6
1,1,2-Trichloroethane	0.027	Not Detected	0.14	Not Detected
Tetrachloroethene	0.027	0.55	0.18	3.7
1,2-Dibromoethane (EDB)	0.027	Not Detected	0.20	Not Detected
Ethyl Benzene	0.027	1.6	0.12	6.8
m,p-Xylene	0.053	1.4	0.23	6.0
o-Xylene	0.027	0.40	0.12	1.7
1,1,2,2-Tetrachloroethane	0.027	Not Detected	0.18	Not Detected
1,4-Dichlorobenzene	0.027	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

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Air Toxics

Client Sample ID: 1A6 (201 HEALTH CTR)

Lab ID#: 1508200-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081416sim**	**Date of Collection: 8/13/15 1:21:00 PM**	
Dil. Factor:	**1.67**	**Date of Analysis: 8/14/15 07:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.52	0.16	2.6
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.084	0.59	0.17	1.2
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Chloroethane	0.084	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.67	0.16	3.3
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.10	0.21	0.63
Benzene	0.084	0.11	0.27	0.34
1,2-Dichloroethane	0.033	0.16	0.14	0.63
Trichloroethene	0.033	0.85	0.18	4.5
Toluene	0.033	0.55	0.12	2.0
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.79	0.23	5.4
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.033	2.7	0.14	12
m,p-Xylene	0.067	2.4	0.29	11
o-Xylene	0.033	0.66	0.14	2.9
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	95	70-130

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Air Toxics

Client Sample ID: IA6 DUP(201 HEALTH CTR)

Lab ID#: 1508200-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081417sim**	**Date of Collection:**	**8/13/15 1:21:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**8/14/15 08:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.48	0.16	2.4
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.083	0.57	0.17	1.2
Vinyl Chloride	0.017	Not Detected	0.042	Not Detected
Chloroethane	0.083	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.67	0.16	3.3
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.098	0.21	0.61
Benzene	0.083	0.087	0.26	0.28
1,2-Dichloroethane	0.033	0.16	0.13	0.63
Trichloroethene	0.033	0.82	0.18	4.4
Toluene	0.033	0.55	0.12	2.1
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.76	0.22	5.2
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.033	2.8	0.14	12
m,p-Xylene	0.066	2.5	0.29	11
o-Xylene	0.033	0.67	0.14	2.9
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: 1A7 (203 CPA)

Lab ID#: 1508200-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081425sim**	**Date of Collection: 8/13/15 1:34:00 PM**	
Dil. Factor:	**4.35**	**Date of Analysis: 8/15/15 07:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.087	0.47	0.43	2.3
Freon 114	0.087	Not Detected	0.61	Not Detected
Chloromethane	0.22	0.61	0.45	1.2
Vinyl Chloride	0.044	Not Detected	0.11	Not Detected
Chloroethane	0.22	Not Detected	0.57	Not Detected
1,1-Dichloroethene	0.044	Not Detected	0.17	Not Detected
trans-1,2-Dichloroethene	0.44	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.44	Not Detected	1.6	Not Detected
1,1-Dichloroethane	0.087	Not Detected	0.35	Not Detected
cis-1,2-Dichloroethene	0.087	Not Detected	0.34	Not Detected
Chloroform	0.087	0.29	0.42	1.4
1,1,1-Trichloroethane	0.087	Not Detected	0.47	Not Detected
Carbon Tetrachloride	0.087	Not Detected	0.55	Not Detected
Benzene	0.22	Not Detected	0.69	Not Detected
1,2-Dichloroethane	0.087	Not Detected	0.35	Not Detected
Trichloroethene	0.087	0.35	0.47	1.9
Toluene	0.087	0.64	0.33	2.4
1,1,2-Trichloroethane	0.087	Not Detected	0.47	Not Detected
Tetrachloroethene	0.087	0.49	0.59	3.3
1,2-Dibromoethane (EDB)	0.087	Not Detected	0.67	Not Detected
Ethyl Benzene	0.087	0.64	0.38	2.8
m,p-Xylene	0.17	0.62	0.76	2.7
o-Xylene	0.087	0.24	0.38	1.0
1,1,2,2-Tetrachloroethane	0.087	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.087	Not Detected	0.52	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	91	70-130

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Air Toxics

Client Sample ID: IA8 (SUITE 204)

Lab ID#: 1508200-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081418sim**	**Date of Collection:**	**8/13/15 1:40:00 PM**
Dil. Factor:	**1.84**	**Date of Analysis:**	**8/14/15 08:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.037	0.47	0.18	2.3
Freon 114	0.037	Not Detected	0.26	Not Detected
Chloromethane	0.092	0.53	0.19	1.1
Vinyl Chloride	0.018	Not Detected	0.047	Not Detected
Chloroethane	0.092	Not Detected	0.24	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.073	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.73	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
1,1-Dichloroethane	0.037	Not Detected	0.15	Not Detected
cis-1,2-Dichloroethene	0.037	Not Detected	0.14	Not Detected
Chloroform	0.037	0.24	0.18	1.1
1,1,1-Trichloroethane	0.037	Not Detected	0.20	Not Detected
Carbon Tetrachloride	0.037	0.10	0.23	0.65
Benzene	0.092	Not Detected	0.29	Not Detected
1,2-Dichloroethane	0.037	Not Detected	0.15	Not Detected
Trichloroethene	0.037	0.29	0.20	1.6
Toluene	0.037	0.28	0.14	1.1
1,1,2-Trichloroethane	0.037	Not Detected	0.20	Not Detected
Tetrachloroethene	0.037	0.19	0.25	1.3
1,2-Dibromoethane (EDB)	0.037	Not Detected	0.28	Not Detected
Ethyl Benzene	0.037	0.14	0.16	0.62
m,p-Xylene	0.074	0.19	0.32	0.82
o-Xylene	0.037	0.092	0.16	0.40
1,1,2,2-Tetrachloroethane	0.037	Not Detected	0.25	Not Detected
1,4-Dichlorobenzene	0.037	Not Detected	0.22	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: IA5 (MEN'S ROOM)

Lab ID#: 1508200-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081419sim**	**Date of Collection:**	**8/13/15 1:45:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**8/14/15 09:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.47	0.16	2.3
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.083	0.66	0.17	1.4
Vinyl Chloride	0.017	Not Detected	0.042	Not Detected
Chloroethane	0.083	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	1.6	0.16	7.6
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.11	0.21	0.69
Benzene	0.083	0.14	0.26	0.44
1,2-Dichloroethane	0.033	0.061	0.13	0.25
Trichloroethene	0.033	1.5	0.18	8.1
Toluene	0.033	0.72	0.12	2.7
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.81	0.22	5.5
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.033	0.94	0.14	4.1
m,p-Xylene	0.066	0.90	0.29	3.9
o-Xylene	0.033	0.26	0.14	1.1
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IA9 (301 KUMON)

Lab ID#: 1508200-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081420sim**	**Date of Collection:**	**8/13/15 1:44:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**8/14/15 10:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.046	0.51	0.22	2.5
Freon 114	0.046	Not Detected	0.32	Not Detected
Chloromethane	0.11	0.67	0.24	1.4
Vinyl Chloride	0.023	Not Detected	0.058	Not Detected
Chloroethane	0.11	Not Detected	0.30	Not Detected
1,1-Dichloroethene	0.023	Not Detected	0.090	Not Detected
trans-1,2-Dichloroethene	0.23	Not Detected	0.90	Not Detected
Methyl tert-butyl ether	0.23	Not Detected	0.82	Not Detected
1,1-Dichloroethane	0.046	Not Detected	0.18	Not Detected
cis-1,2-Dichloroethene	0.046	Not Detected	0.18	Not Detected
Chloroform	0.046	0.42	0.22	2.0
1,1,1-Trichloroethane	0.046	Not Detected	0.25	Not Detected
Carbon Tetrachloride	0.046	0.10	0.29	0.66
Benzene	0.11	0.15	0.36	0.47
1,2-Dichloroethane	0.046	0.077	0.18	0.31
Trichloroethene	0.046	0.52	0.24	2.8
Toluene	0.046	1.3	0.17	4.9
1,1,2-Trichloroethane	0.046	Not Detected	0.25	Not Detected
Tetrachloroethene	0.046	0.70	0.31	4.7
1,2-Dibromoethane (EDB)	0.046	Not Detected	0.35	Not Detected
Ethyl Benzene	0.046	1.1	0.20	4.6
m,p-Xylene	0.091	1.0	0.40	4.5
o-Xylene	0.046	0.33	0.20	1.4
1,1,2,2-Tetrachloroethane	0.046	Not Detected	0.31	Not Detected
1,4-Dichlorobenzene	0.046	Not Detected	0.27	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	93	70-130

eurofins

Air Toxics

Client Sample ID: IA10 (SUITE 302)

Lab ID#: 1508200-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081421sim**	**Date of Collection: 8/13/15 1:42:00 PM**	
Dil. Factor:	**1.76**	**Date of Analysis: 8/14/15 11:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.035	0.48	0.17	2.4
Freon 114	0.035	Not Detected	0.25	Not Detected
Chloromethane	0.088	0.59	0.18	1.2
Vinyl Chloride	0.018	Not Detected	0.045	Not Detected
Chloroethane	0.088	Not Detected	0.23	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.070	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.70	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
1,1-Dichloroethane	0.035	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.035	Not Detected	0.14	Not Detected
Chloroform	0.035	0.51	0.17	2.5
1,1,1-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Carbon Tetrachloride	0.035	0.10	0.22	0.64
Benzene	0.088	0.13	0.28	0.42
1,2-Dichloroethane	0.035	0.055	0.14	0.22
Trichloroethene	0.035	0.65	0.19	3.5
Toluene	0.035	0.63	0.13	2.4
1,1,2-Trichloroethane	0.035	Not Detected	0.19	Not Detected
Tetrachloroethene	0.035	0.71	0.24	4.8
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.54	0.15	2.3
m,p-Xylene	0.070	0.54	0.30	2.3
o-Xylene	0.035	0.18	0.15	0.80
1,1,2,2-Tetrachloroethane	0.035	Not Detected	0.24	Not Detected
1,4-Dichlorobenzene	0.035	Not Detected	0.21	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	120	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130

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Air Toxics

Client Sample ID: IA11 (SUITE 303)

Lab ID#: 1508200-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081422sim**	**Date of Collection: 8/13/15 2:26:00 PM**	
Dil. Factor:	**1.66**	**Date of Analysis: 8/14/15 11:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.50	0.16	2.5
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.083	0.53	0.17	1.1
Vinyl Chloride	0.017	Not Detected	0.042	Not Detected
Chloroethane	0.083	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	Not Detected	0.13	Not Detected
Chloroform	0.033	0.14	0.16	0.69
1,1,1-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.033	0.10	0.21	0.66
Benzene	0.083	Not Detected	0.26	Not Detected
1,2-Dichloroethane	0.033	0.16	0.13	0.63
Trichloroethene	0.033	0.17	0.18	0.90
Toluene	0.033	0.27	0.12	1.0
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	0.14	0.22	0.96
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.033	0.16	0.14	0.70
m,p-Xylene	0.066	0.17	0.29	0.73
o-Xylene	0.033	0.059	0.14	0.26
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	94	70-130

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Air Toxics

Client Sample ID: IA11 DUP(SUITE 303)

Lab ID#: 1508200-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081423sim**	**Date of Collection:**	**8/13/15 2:26:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**8/15/15 06:12 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.49	0.16	2.4
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.078	0.57	0.16	1.2
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.078	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	0.12	0.15	0.61
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.090	0.20	0.57
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	0.14	0.13	0.59
Trichloroethene	0.031	0.16	0.17	0.85
Toluene	0.031	0.25	0.12	0.95
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	0.13	0.21	0.89
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.14	0.14	0.62
m,p-Xylene	0.063	0.16	0.27	0.70
o-Xylene	0.031	0.062	0.14	0.27
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	93	70-130

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Air Toxics

Client Sample ID: BG2 AMBIENT

Lab ID#: 1508200-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081424sim**	**Date of Collection: 8/13/15 2:31:00 PM**	
Dil. Factor:	**1.56**	**Date of Analysis: 8/15/15 06:53 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.50	0.15	2.5
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.078	0.54	0.16	1.1
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.078	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.062	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.62	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.096	0.20	0.60
Benzene	0.078	Not Detected	0.25	Not Detected
1,2-Dichloroethane	0.031	Not Detected	0.13	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.18	0.12	0.68
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.031	0.14	0.14
m,p-Xylene	0.062	0.086	0.27	0.37
o-Xylene	0.031	0.048	0.14	0.21
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	92	70-130

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Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1508200-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081409sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/15 01:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.050	Not Detected	0.10	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	90	70-130

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Air Toxics

Client Sample ID: CCV

Lab ID#: 1508200-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081404sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/15 09:53 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	100
Chloromethane	121
Vinyl Chloride	114
Chloroethane	115
1,1-Dichloroethene	100
trans-1,2-Dichloroethene	110
Methyl tert-butyl ether	115
1,1-Dichloroethane	120
cis-1,2-Dichloroethene	112
Chloroform	110
1,1,1-Trichloroethane	112
Carbon Tetrachloride	81
Benzene	100
1,2-Dichloroethane	120
Trichloroethene	95
Toluene	104
1,1,2-Trichloroethane	105
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	106
Ethyl Benzene	111
m,p-Xylene	117
o-Xylene	115
1,1,2,2-Tetrachloroethane	109
1,4-Dichlorobenzene	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

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Air Toxics

Client Sample ID: LCS

Lab ID#: 1508200-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081405sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/15 10:34 AM**	

Compound	%Recovery	Method Limits
Freon 12	103	70-130
Freon 114	96	70-130
Chloromethane	107	70-130
Vinyl Chloride	104	70-130
Chloroethane	102	70-130
1,1-Dichloroethene	90	70-130
trans-1,2-Dichloroethene	84	70-130
Methyl tert-butyl ether	94	70-130
1,1-Dichloroethane	104	70-130
cis-1,2-Dichloroethene	108	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	97	70-130
Carbon Tetrachloride	110	60-140
Benzene	89	70-130
1,2-Dichloroethane	107	70-130
Trichloroethene	84	70-130
Toluene	92	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	87	70-130
1,2-Dibromoethane (EDB)	95	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	105	70-130
o-Xylene	104	70-130
1,1,2,2-Tetrachloroethane	100	70-130
1,4-Dichlorobenzene	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 1508200-14AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081406sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/14/15 11:19 AM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	94	70-130
Chloromethane	112	70-130
Vinyl Chloride	109	70-130
Chloroethane	106	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	83	70-130
Methyl tert-butyl ether	95	70-130
1,1-Dichloroethane	103	70-130
cis-1,2-Dichloroethene	106	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	110	60-140
Benzene	88	70-130
1,2-Dichloroethane	103	70-130
Trichloroethene	82	70-130
Toluene	91	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	86	70-130
1,2-Dibromoethane (EDB)	96	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	103	70-130
o-Xylene	103	70-130
1,1,2,2-Tetrachloroethane	100	70-130
1,4-Dichlorobenzene	92	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0401

PROJECT NAME: RED HANGER KLEANERS, 6239 COLLEGE AVE, OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) JAY MILLER

Custody Seal Intact? Y N (None) Temp N/A

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION: STARTING VAC.	ENDING VAC.	SUMMA #	NUMBER OF CONTAINERS	ANALYSIS(ES): TO-15	PRESERVATIVE	REMARKS
01A	IA4 (HALLWAY)	8/13/15	1326 / 1328	AIR	-30	-7.5	33583	1	X	NONE	24HR RUSH
02A	IA6 (201 HEALTH CTR)	"	1332 / 1321	"	-30	-7	901	1	X	"	"
03A	IA6 DUP (201 HEALTH CTR)	"	1330 / 1321	"	-30	-7	13665	1	X	"	"
04A	IA7 (203 CPA)	"	1325 / 1334	"	-30	-7	34218	1	X	"	"
05A	IA8 (SUITE 204)	"	1335 / [illegible]	"	-30	-8	33884	1	X	"	"
			1340								
06A	IA5 (MEN'S ROOM)	"	1341 / 1345	"	-30	-6	11882	1	X	"	"
07A	IA9 (301 ROMON)	"	1343 / 1343	"	-30	-12.5	33877	1	X	"	"
08A	IA10 (SUITE 302)	"	1348 / 1342	"	-30	-8	GL1262	1	X	"	"
09A	IA11 (SUITE 303)	"	1426 / 1426	"	-30	-6.5	25301	1	X	"	"
10A	IA11DUP (SUITE 303)	"	1346 / 1426	"	-30	-6	33554	1	X	"	"
11A	B&R AMBIENT	"	1430 / 1431	"	-30	-4.5	12955	1	X	"	"

RELINQUISHED BY: (SIGNATURE)	DATE 8-13-15	TIME 15:19	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment): 11 / Total No. of Containers (This Shipment): 11	LABORATORY: EUROFINS AIRTOXICS LTD
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: KYLE VAGADORT	LABORATORY PHONE NUMBER: (916) 605-3339
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: FLOW CONTROLLER 24HR (SIM CERTIFIED)
6-LITER SUMMA

1508200

0461
Red Hanger Cleaners
6239 College Avenue, Oakland

Table 1
Summary of Indoor and Ambient Air Sample Analytical Results

Sample Location/ID	Sample Date	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Carbon Tetrachloride	Chloroform	Chloromethane	Dichlorofluoromethane (Freon 12)	1,2-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IA-1	5/29/2015	**0.62**	1.6	0.31	0.87	0.29	**0.50**	0.32	1.3	2.5	ND<0.13	**3.5**	ND<0.17	ND<0.12	ND<0.63	ND<0.040
IA-2	5/29/2015	**0.61**	1.7	0.37	1.2	0.46	**0.54**	0.34	1.2	2.6	ND<0.13	**3.3**	ND<0.17	ND<0.12	ND<0.62	ND<0.040
IA2 (1st Floor)	8/6/2015	0.38	1.2	0.22	0.67	0.23	**0.54, a**	0.28	0.89	2.1	ND<0.13	**4.2**	0.40	ND<0.13	ND<0.64	ND<0.041
IA-3	5/29/2015	ND<0.86	2.0	ND<0.47	ND<0.94	ND<0.47	ND<0.68	1.8	1.4	3.0	0.43, a	**3.5**	**5.1**	ND<0.43	ND<2.1	ND<0.14
IA-4	**5/29/2015**	**4.3**	19	**3.0**	**8.7**	**3.4**	**5.1**	**33**	**16**	**27**	**2.5**	**40**	**88**	**ND<1.3**	**ND<6.3**	**ND<0.41**
IA4 (2nd Floor)	8/6/2015	**0.42**	2.4	0.41	1.0	0.46	**0.52, a**	**5.4**	1.0	2.2	0.24	**3.6**	**8.1**	ND<0.12	ND<0.63	ND<0.040
IA4 (Hallway)	8/13/2015	0.28	1.6	**6.8**	6.0	1.7	**0.41**	**3.8**	0.82	1.7	0.32	**3.7**	**5.6**	ND<0.10	ND<0.53	ND<0.034
IA-5	**5/29/2015**	**4.0**	16	**2.5**	**7.4**	**3.5**	**4.8**	**32**	**15**	**28**	**1.4**	**41**	**66**	**ND<1.2**	**ND<6.3**	**ND<0.40**
IA5 Men's Room (3rd Floor)	8/6/2015	**0.43**	2.6	0.47	1.1	0.42	**0.42, a**	**6.6**	1.1	2.1	0.20	**4.7**	**6.5**	ND<0.13	ND<0.63	ND<0.041
IA5 (Men's Room)	8/13/2015	**0.44**	2.7	4.1	3.9	1.1	**0.69**	**7.6**	1.4	2.3	0.25	**5.5**	**8.1**	ND<0.13	ND<0.66	ND<0.042
IA6 (201 Health Center	8/13/2015	0.34	2.0	**12**	11	2.9	**0.63**	**3.3**	1.2	2.6	**0.63**	**5.4**	**4.5**	ND<0.13	ND<0.66	ND<0.043
IA6 DUP (201 Health Center)	8/13/2015	0.28	2.1	**12**	11	2.9	**0.61**	**3.3**	1.2	2.4	**0.63**	**5.2**	**4.4**	ND<0.13	ND<0.66	ND<0.042
IA7 (203 CPA)	8/13/2015	ND<0.69	2.4	2.8	2.7	1.0	ND<0.55	1.4	1.2	2.3	ND<0.35	**3.3**	1.9	ND<0.34	ND<1.7	ND<0.11
IA8 (Suite 204)	8/13/2015	ND<0.29	1.1	0.62	0.82	0.40	**0.65**	1.1	1.1	2.3	ND<0.15	1.3	1.6	ND<0.14	ND<0.73	ND<0.047
IA9 (301 Kumon)	8/13/2015	**0.47**	4.9	4.6	4.5	1.4	**0.66**	2.0	1.4	2.5	0.31	**4.7**	2.8	ND<0.18	ND<0.90	ND<0.058
IA10 (Suite 302)	8/13/2015	**0.42**	2.4	2.3	2.3	0.80	**0.64**	**2.5**	1.2	2.4	0.22	**4.8**	**3.5**	ND<0.14	ND<0.70	ND<0.045
IA11 (Suite 303)	8/13/2015	ND<0.26	1.0	0.70	0.73	0.26	**0.66**	0.69	1.1	2.5	**0.63**	0.96	0.90	ND<0.13	ND<0.66	ND<0.042
IA11 DUP (Suite 303)	8/13/2015	ND<0.25	0.95	0.62	0.70	0.27	**0.57**	0.61	1.2	2.4	**0.59**	0.89	0.85	ND<0.12	ND<0.62	ND<0.040
Elevator Pit	8/6/2015	**0.50**	1.4	0.24	0.79	0.29	**0.55, a**	0.98	0.89	2.0	ND<0.11	**43**	1.3	ND<0.11	ND<0.55	ND<0.036
1st Floor Exhaust	8/6/2015	ND<2.6	11	1.5	3.7	1.4	ND<2.0	ND<1.6	ND<1.7	2.7	ND<1.3	**13**	ND<1.7	ND<1.3	ND<6.4	ND<0.41
Sewer Vent	8/6/2015	ND<2.2	7.1	1.3	2.6	ND<1.2	ND<1.7	**150**	1.7	2.1	ND<1.1	**19**	2.3	ND<1.1	ND<5.5	ND<0.36
BG-1	5/29/2015	0.40	0.91	0.18	0.61	0.23	**0.48**	0.16	1.3	2.5	ND<0.13	ND<0.21	ND<0.17	ND<0.12	ND<0.62	ND<0.040
BG-2	5/29/2015	**0.66**	1.4	0.26	0.99	0.43	**0.51**	ND<0.15	1.3	2.5	ND<0.13	ND<0.21	ND<0.17	ND<0.12	ND<0.62	ND<0.040
BG-2 Ambient	8/6/2015	0.30	1.5	0.19	0.59	0.22	**0.48, a**	ND<0.15	0.91	2.3	ND<0.12	ND<0.21	ND<0.17	ND<0.12	ND<0.61	ND<0.040
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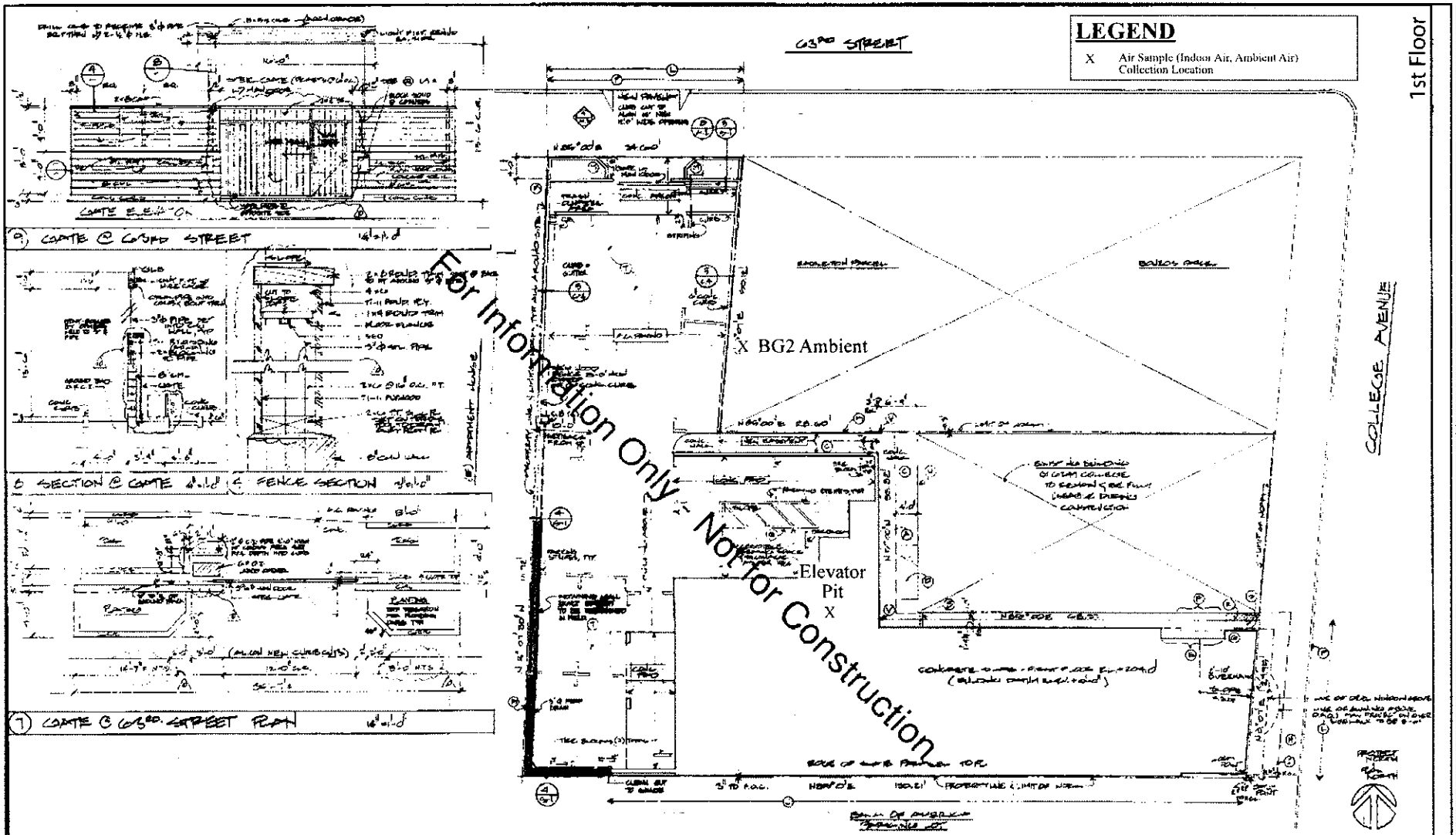
ESL		0.42	1,300	4.9	440 Combined		0.29	2.3	390	No Value	0.58	2.1	3.0	31	260	0.16

NOTES:
1,2-DCA = 1,2-Dichloroethane
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ND = Not Detected.
a = Laboratory note: Estimated value.
ESL = Environmental Screening Level, by San Francisco Bay Regional Water Quality Control Board, Updated December 2013, from Table E-3 - Ambient and Indoor Air Screening Levels for Commercial/Industrial Land Use.
Results in BOLD exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (ug/m^3), unless otherwise noted.
To be revised upon receipt of revised lab report.



Issue Dates

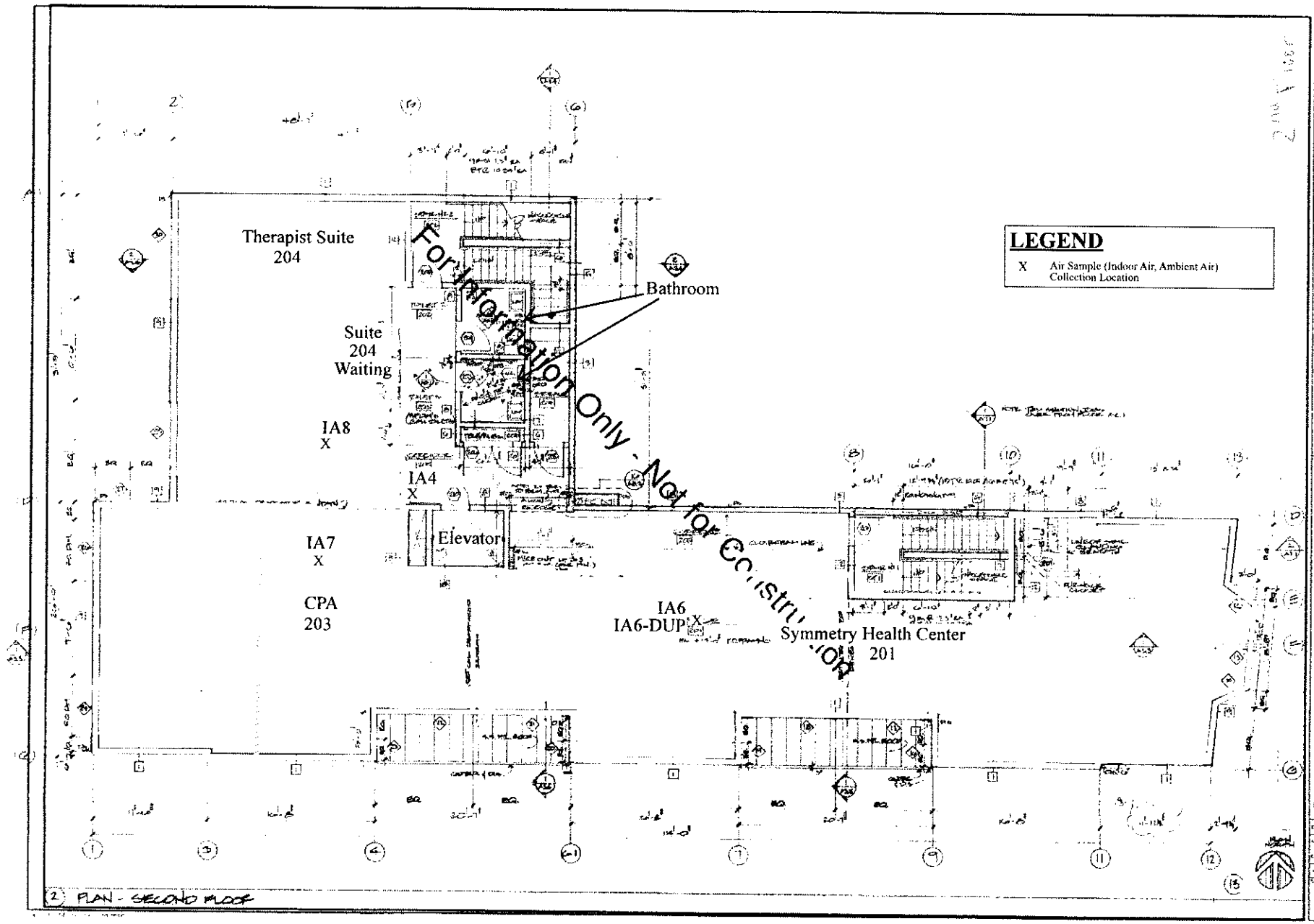
Owner:

*plan*HOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
3400 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6777

Gordon Building
6239 College Avenue, Oakland, CA

Sheet Title: Site Plan

A1.2



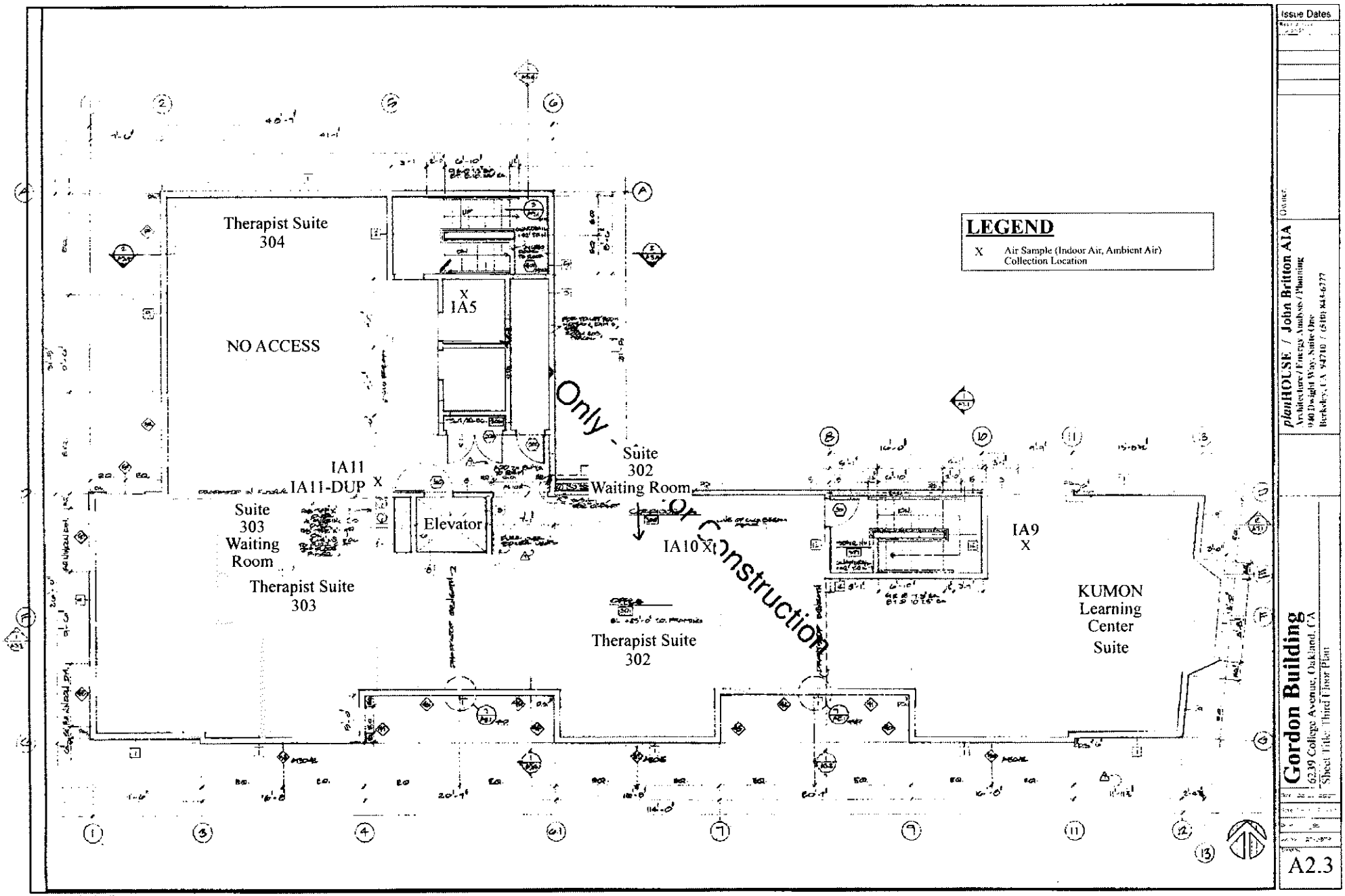
2 PLAN - SECOND FLOOR

Issue Dates

planHOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6777

Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Floor Plans

A2.2



Issue Dates

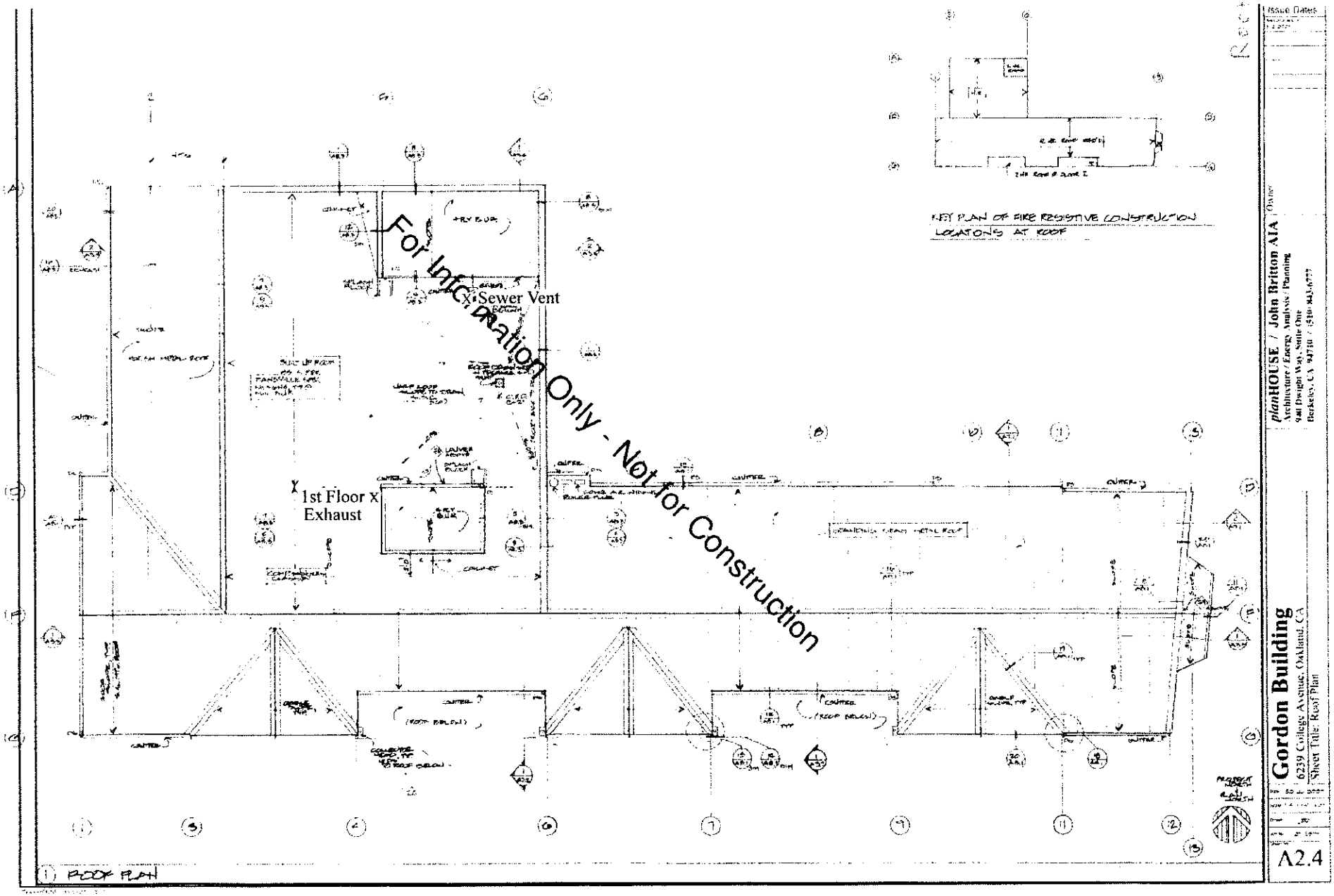
planHOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 644-6777

Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Third Floor Plan

A2.3

LEGEND

X Air Sample (Indoor Air, Ambient Air) Collection Location



1 ROOF PLAN

planHOUSE / John Britton AIA, Owner
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6677

Issue Dates

Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Roof Plan

A2.4

Roe, Dilan, Env. Health

From: pdking0000@aol.com
Sent: Monday, August 17, 2015 8:50 PM
To: Roe, Dilan, Env. Health; Nowell, Keith, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health
Subject: Re: 6239 College Ave Oakland RO 2981 - lab confirmed 5/29/15 IA4 and IA5 error

Hi Dilan and Keith,

I am available by cell phone at 510-387-6834, and Gary Bates is on Central Time and can be reached at 832-518-5145. I am on Eastern Time, so we can get an early start if you want.

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

-----Original Message-----
From: Roe, Dilan, Env. Health, Env. Health <Dilan.Roe@acgov.org>
To: pdking0000 <pdking0000@aol.com>; Nowell, Keith, Env. Health, Env. Health <Keith.Nowell@acgov.org>
Cc: Gary_Bates <Gary_Bates@efiglobal.com>; patrick <patrick@ellwoodcommercial.com>; ronpatelvidge <ronpatelvidge@gmail.com>; WKochenderfer <WKochenderfer@cs.com>; Browder, Ronald, Env. Health, Env. Health <ronald.browder@acgov.org>
Sent: Mon, Aug 17, 2015 10:25 pm
Subject: RE: 6239 College Ave Oakland RO 2981 - lab confirmed 5/29/15 IA4 and IA5 error

Paul and Keith - lets try to touch base about this site tomorrow

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: pdking0000@aol.com [mailto:pdking0000@aol.com]
Sent: Sunday, August 16, 2015 5:37 AM
To: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Cc: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health <ronald.browder@acgov.org>; pdking0000@aol.com
Subject: Re: 6239 College Ave Oakland RO 2981 - lab confirmed 5/29/15 IA4 and IA5 error

Hi Keith and Dilan,

I received confirmation from the lab this past week that they were off by one order of magnitude for the 5/29/15 IA4 (second floor at the back of the building) sample and the 5/29/15 IA5 (third floor at the back of the building) sample. Although the lab initially re-checked their calculations and did not find an error, they were asked to check again and determined that they did in fact miscalculate the dilution factors for these two 5/29/15 samples. The lab is in the process of re-issuing the lab report for the 5/29/15 samples with an explanation for the error.

What this means is that no URAL exceedance conditions have been detected at the site, and that the only location where an ARAL exceedance condition has been detected is in the second floor hallway next to the elevator.

We got word from the lab on Friday 8/14/15 that the soonest that they will have the subject site indoor air tenant space air sample results is at the very end of Monday 8/17/15. We presently have samples for multiple indoor air and multiple soil gas investigations at the lab, so we are working very closely with the lab and will let you know as soon as the data becomes available for the subject site. In addition, we will provide floor plans showing the accessible portions of the tenant spaces and the tenant space sample collection locations, along with the designations of the different tenant spaces when we provide the lab results.

Paul

-----Original Message-----
From: PDKing0000 <PDKing0000@aol.com>
To: Keith.Nowell <Keith.Nowell@acgov.org>
Cc: dilan.roe <dilan.roe@acgov.org>; Gary_Bates <Gary_Bates@efiglobal.com>; patrick <patrick@ellwoodcommercial.com>; ronpatelvidge <ronpatelvidge@gmail.com>; WKochenderfer <WKochenderfer@cs.com>; ronald.browder <ronald.browder@acgov.org>
Sent: Thu, Aug 13, 2015 7:33 pm
Subject: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling completed 8/13/15

Hi Keith,

We completed air sample collection today and sent the samples to the lab via courrier for expedited analysis for the subject site.

No suspected TCE or PCE sources were identified in any of the tenant spaces during our chemical inventory of accessible tenant spaces.

I expect that we will have the sample results at the beginning of this next week.

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
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(510) 658-6916 telephone
(510) 834-0152 facsimile

Roe, Dilan, Env. Health

From: Roe, Dilan, Env. Health
Sent: Monday, August 17, 2015 7:26 PM
To: 'pdking0000@aol.com'; Nowell, Keith, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health
Subject: RE: 6239 College Ave Oakland RO 2981 - lab confirmed 5/29/15 IA4 and IA5 error

Paul and Keith - lets try to touch base about this site tomorrow

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Progrom Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

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Paul

0461
Red Hanger Cleaners
6239 College Avenue, Oakland

Table 1
Summary of Indoor and Ambient Air Sample Analytical Results

ARAL's

TCE - 8.0 (Comm/Ind)

Sample Location/ID	Sample Date	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Carbon Tetrachloride	Chloroform	Chloromethane	Dichlorofluoromethane (Freon 12)	1,2-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
IA-1	5/29/2015	**0.62**	1.6	0.31	0.87	0.29	**0.50**	0.32	1.3	2.5	ND<0.13	**3.5**	ND<0.17	ND<0.12	ND<0.63	ND<0.040
IA-2	5/29/2015	**0.61**	1.7	0.37	1.2	0.46	**0.54**	0.34	1.2	2.6	ND<0.13	**3.3**	ND<0.17	ND<0.12	ND<0.62	ND<0.040
IA2 (1st Floor)	8/6/2015	0.38	1.2	0.22	0.67	0.23	**0.54, a**	0.28	0.89	2.1	ND<0.13	**4.2**	0.40	ND<0.13	ND<0.64	ND<0.041
IA-3	5/29/2015	ND<0.86	2.0	ND<0.47	ND<0.94	ND<0.47	ND<0.68	1.8	1.4	3.0	0.43, a	**3.5**	**5.1**	ND<0.43	ND<2.1	ND<0.14
IA-4	5/29/2015	**4.3**	**19**	**3.0**	**8.7**	**3.4**	**5.1**	**33**	**16**	**27**	**2.5**	**40**	**88**	**ND<1.3**	**ND<6.3**	**ND<0.41**
IA4 (2nd Floor)	8/6/2015	**0.42**	2.4	0.41	1.0	0.46	**0.52, a**	**5.4**	1.0	2.2	0.24	**3.6**	**8.1**	ND<0.12	ND<0.63	ND<0.040
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Results in BOLD exceed their respective ESL value.
Results and ESLs in micrograms per cubic meter (ug/m^3), unless otherwise noted
To be revised upon receipt of revised lab report

> next to Elevator

-----Original Message-----
From: PDKing0000 <PDKing0000@aol.com>
To: Keith.Nowell <Keith.Nowell@acgov.org>
Cc: dilan.roe <dilan.roe@acgov.org>; Gary_Bates <Gary_Bates@efiglobal.com>; patrick <patrick@ellwoodcommercial.com>; ronpatelvidge <ronpatelvidge@gmail.com>; WKochenderfer <WKochenderfer@cs.com>; ronald.browder <ronald.browder@acgov.org>
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Subject: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling completed 8/13/15

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Paul H. King
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(510) 387-6834 cellular
Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: Roe, Dilan, Env. Health
Sent: Thursday, August 13, 2015 5:35 PM
To: 'PDKing0000@aol.com'; Nowell, Keith, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health
Subject: RE: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling completed 8/13/15

Thank you Paul for the update.

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: PDKing0000@aol.com [mailto:PDKing0000@aol.com]
Sent: Thursday, August 13, 2015 4:34 PM
To: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>
Cc: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health <ronald.browder@acgov.org>
Subject: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling completed 8/13/15

Hi Keith,

We completed air sample collection today and sent the samples to the lab via courrier for expedited analysis for the subject site.

No suspected TCE or PCE sources were identified in any of the tenant spaces during our chemical inventory of accessible tenant spaces.

I expect that we will have the sample results at the beginning of this next week.

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, August 13, 2015 4:34 PM
To: Nowell, Keith, Env. Health
Cc: Roe, Dilan, Env. Health; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health
Subject: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling completed 8/13/15

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Paul.King@pdenviro.com

Roe, Dilan, Env. Health

From: Browder, Ronald, Env. Health
Sent: Thursday, August 13, 2015 9:18 AM
To: Roe, Dilan, Env. Health
Subject: RE: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling

Thanks

From: Roe, Dilan, Env. Health
Sent: Wednesday, August 12, 2015 5:58 PM
To: PDKing0000@aol.com
Cc: Nowell, Keith, Env. Health <Keith.Nowell@acgov.org>; Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com; Browder, Ronald, Env. Health <ronald.browder@acgov.org>
Subject: Re: 6239 College Ave Oakland RO 2981 - 8/12/15 air sampling

Hi Paul-

Thank you for the update - as always it is clear from the information that you provided that you are on top of this and I really appreciate that.

Dilan

Sent from my iPhone

On Aug 12, 2015, at 3:20 PM, "PDKing0000@aol.com" <PDKing0000@aol.com> wrote:

> Hi Dilan,
>
> I am sorry to hear about your injury and wish you a speedy recovery!
>
> We are addressing community outreach for the subject site in accordance with guidance set forth in the following guidance documents:
>
> - SFRWQCB October 16, 2014 Draft Interim Framework for Assessment of Vapor Intrusion at TCE-Contaminated Sites in the San Francisco Bay Region.
> - SWRCB, 2005 Final Draft – Public Participation at Cleanup Sites.
> - DTSC March 2012 Vapor Intrusion Public Participation Advisory.
>
> Following review of the 8/7/15 building common area air sample results on Tuesday morning 8/11/15 and verification of the proposed tenant space air sampling plan with Keith Nowell on 8/11/15 and also after verifying with the laboratory on 8/11/15 that sampling media could be delivered by Wednesday morning 8/12/15 and then analyzed on an expedited basis, a tenant notice was prepared and distributed to tenants by the end 8/11/15.
>
> The tenant notice states that cleaning chemicals have been detected in air in the hallway and that air testing is being performed beginning on 8/12/15 to determine if detectable concentrations of cleaning chemicals are present in tenant spaces. The notice also states that we will let the tenants know when we have further information.

At the time that we deployed the Summa canisters on 8/12/15 I was personally onsite to answer any tenant questions, and a sign was posted on each Summa canister that states in large letters (48 font size)

"PLEASE DO NOT DISTURB

TEST IN PROGRESS

If you have any questions, please call Paul King at 510-658-6916 or 510-387-6834.
Thank you!"

The telephone numbers provided are both my office and my cell phone.

Once we are able to review the expedited air sample results and determine air quality conditions in the tenant spaces we will provide written notification to tenants of any air quality conditions exceeding California regulatory guidance screening levels or interim action levels identified during our investigation.

Our contingency preparation includes the following:

o Removal from tenant spaces of any suspect chemical sources identified during our tenant space chemical inventory inspection.

o An inventory of the building HVAC systems on 8/12/15 with the company that maintains the building HVAC units to determine which tenant space HVAC systems can be adjusted to increase the amount of ventilation with outdoor air.

o Scheduling the company that maintains the building HVAC units to be available to adjust HVAC ventilation for tenant spaces, if warranted, following review of the pending air sample results.

o Scheduling personnel to be available to wet shampoo the hallway carpets, if warranted, following review of the pending air sample results.

o Scheduling personnel to be available to provide air filtration equipment for any tenant spaces that are identified where HVAC ventilation cannot be increased using outside air, if warranted, following review of the pending air sample results.

Any contingency actions implemented will be communicated to affected tenants verbally if the tenant can be contacted directly, and also in writing.

Please let me know if you need any additional information.

Thank you!

Paul

In a message dated 8/11/2015 19:24:28 Pacific Daylight Time, Dilan.Roe@acgov.org writes:

> Hi Paul - thanks for the update and your prompt attention to this project.
> I sprained/fractured my ankle last night so was not in the office today.
>
> Your plan sounds good - but I did want to touch base with you regarding community outreach as we are now collecting data in tenant spaces. I want to make sure we are following appropriate protocol on notification. Can you please give me an overview on the notification process (actions already taken and planned actions).
>
> Thank you
>
> Dilan
>
> Sent from my iPhone

On Aug 11, 2015, at 7:12 PM, "PDKing0000@aol.com<mailto:PDKing0000@aol.com>" <PDKing0000@aol.com<mailto:PDKing0000@aol.com>> wrote:

Hi Keith,

As you and I and Gary Bates discussed on the telephone today 8/11/15, we will collect air samples at the subject site during a 24 hour period beginning Wednesday 8/12/15 in an effort to identify the TCE source and to evaluate the presence of PCE in air in the tenant spaces. The samples will go to the same lab as previous air samples for the site on Thursday 8/13/15 for expedited TO-15 analysis for the same compounds as the 8/7/15 samples. We expect the sample results back by some time on Monday 8/17/15.

Sample media will consist of the following:

o 13 SIM-certified 6-liter Summa canisters.

o 6 SIM-certified 24-hour mass flow controllers and 7 24-hour mass flow controllers that are not SIM-certified (the lab did not have all of the requested mass flow controllers SIM-certified by the time of media shipment)

o 6 SIM-certified 3-foot long sampling canes and 7 SIM-certified 2-foot long sampling canes (these shorter canes will be used at locations where the sampling train will be elevated so that the air intake is in the breathing zone.

o 2 duplicate tees.

Samples will be collected at locations as follows:

o One ambient air sample will be collected at the same location as on 8/7/15.

o One air sample on each of the second and third floors will be collected at the same locations (in common areas of the hallway and a bathroom) as on 8/7/15.

o There are two large tenant spaces (Kumon Learning center and a chiropracter), and two samples will be collected in each of these tenant spaces.

o There is one accounting office consisting of one waiting room area and 3 offices. One air sample will be collected from the waiting room area.

o There are three psychotherapy suites with each suite consisting of a waiting room and an unknown number of offices. One air sample will be collected from each of the three waiting rooms.

o Two duplicate samples.

In addition, chemical inventories will be performed for accessible portions of tenant spaces.

I will provide you with copies of the sample results when they become available.

We would also like to review available subsurface information with you to identify data gaps and to verify that we are in agreement regarding steps needed to complete the subsurface investigation for the site.

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

Thank you!

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com<mailto:Paul.King@pdenviro.com>

In a message dated 8/11/2015 10:10:04 Pacific Daylight Time,
PDKing0000@aol.com<mailto:PDKing0000@aol.com> writes:
Hi Keith and Dilan,

Attached is a pdf copy of the 8/7/15 indoor air results for the subject site. No URAL exceedances were detected for TCE. The 8/7/15 sample results show air quality that indicates that the 5/29/15 air sample second and third floor results were one order of magnitude higher for all analytes, indicating that there appears to have been a lab error for those samples.

The 8/7/15 second floor air sample TCE value of 8.1 ug/m3 exceeds the TCE ARAL of 8.0 ug/m3. We propose tol collect air samples during a 24 hour period with an expedited turn around in the tenant suites in an effort to identify the TCE source and evaluate the presence of PCE in tenant spaces, followed by adjustments to the HVAC to increase ventilation. In addition, we would like to discuss steps necessary to complete the subsurface investigation for the site.

Paul

Paul H. King
Professional Geologist

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Paul.King@pdenviro.com<mailto:Paul.King@pdenviro.com>

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8/10/2015
Mr. Paul King
P & D Environmental
55 Santa Clara
Suite 240
Oakland CA 94610

Project Name: RED HANGER KLEANERS 6239 COLLEGE AVE.
Project #: 0461
Workorder #: 1508074

Dear Mr. Paul King

The following report includes the data for the above referenced project for sample(s) received on 8/7/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

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WORK ORDER #: 1508074

Work Order Summary

CLIENT:	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610	**BILL TO:**	Mr. Paul King P & D Environmental 55 Santa Clara Suite 240 Oakland, CA 94610
PHONE:	510-658-6916	**P.O. #**	
FAX:	510-834-0772	**PROJECT #**	0461 RED HANGER KLEANERS 6239 COLLEGE AVE.
DATE RECEIVED:	08/07/2015	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	08/10/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	IA2 (1ST FLOOR)	Modified TO-15 SIM	5.1 "Hg	5 psi
02A	IA4 (2ND FLOOR)	Modified TO-15 SIM	4.7 "Hg	4.9 psi
03A	IA5 MEN'S ROOM (3RD FLOOR)	Modified TO-15 SIM	4.7 "Hg	5 psi
04A	ELEVATOR PIT	Modified TO-15 SIM	1.2 "Hg	4.9 psi
05A	1ST FLOOR EXHAUST	Modified TO-15 SIM	5.1 "Hg	5.1 psi
06A	SEWER VENT	Modified TO-15 SIM	1 "Hg	5.1 psi
07A	BG-2 AMBIENT	Modified TO-15 SIM	4.1 "Hg	5 psi
08A	Lab Blank	Modified TO-15 SIM	NA	NA
08B	Lab Blank	Modified TO-15 SIM	NA	NA
09A	CCV	Modified TO-15 SIM	NA	NA
09B	CCV	Modified TO-15 SIM	NA	NA
10A	LCS	Modified TO-15 SIM	NA	NA
10AA	LCSD	Modified TO-15 SIM	NA	NA
10B	LCS	Modified TO-15 SIM	NA	NA
10BB	LCSD	Modified TO-15 SIM	NA	NA

CERTIFIED BY: Heidi Jaeger DATE: 08/10/15

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 SIM
P & D Environmental
Workorder# 1508074

Seven 6 Liter Summa Canister (SIM Certified) samples were received on August 07, 2015. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on samples 1ST FLOOR EXHAUST and SEWER VENT due to matrix interference.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA2 (1ST FLOOR)

Lab ID#: 1508074-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.43	0.16	2.1
Chloromethane	0.080	0.43	0.17	0.89
Chloroform	0.032	0.058	0.16	0.28
Carbon Tetrachloride	0.032	0.086 J0	0.20	0.54 J0
Benzene	0.080	0.12	0.26	0.38
Trichloroethene	0.032	0.075	0.17	0.40
Toluene	0.032	0.33	0.12	1.2
Tetrachloroethene	0.032	0.62	0.22	4.2
Ethyl Benzene	0.032	0.050	0.14	0.22
m,p-Xylene	0.064	0.16	0.28	0.67
o-Xylene	0.032	0.053	0.14	0.23

Client Sample ID: IA4 (2ND FLOOR)

Lab ID#: 1508074-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.45	0.16	2.2
Chloromethane	0.079	0.49	0.16	1.0
Chloroform	0.032	1.1	0.15	5.4
Carbon Tetrachloride	0.032	0.083 J0	0.20	0.52 J0
Benzene	0.079	0.13	0.25	0.42
1,2-Dichloroethane	0.032	0.060	0.13	0.24
Trichloroethene	0.032	1.5	0.17	8.1
Toluene	0.032	0.64	0.12	2.4
Tetrachloroethene	0.032	0.53	0.21	3.6
Ethyl Benzene	0.032	0.095	0.14	0.41
m,p-Xylene	0.063	0.23	0.27	1.0
o-Xylene	0.032	0.10	0.14	0.46

Client Sample ID: IA5 MEN'S ROOM (3RD FLOOR)

Lab ID#: 1508074-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: IA5 MEN'S ROOM (3RD FLOOR)

Lab ID#: 1508074-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.43	0.16	2.1
Chloromethane	0.080	0.55	0.16	1.1
Chloroform	0.032	1.3	0.16	6.6
Carbon Tetrachloride	0.032	0.067 J0	0.20	0.42 J0
Benzene	0.080	0.14	0.25	0.43
1,2-Dichloroethane	0.032	0.049	0.13	0.20
Trichloroethene	0.032	1.2	0.17	6.5
Toluene	0.032	0.68	0.12	2.6
Tetrachloroethene	0.032	0.70	0.22	4.7
Ethyl Benzene	0.032	0.11	0.14	0.47
m,p-Xylene	0.064	0.26	0.28	1.1
o-Xylene	0.032	0.097	0.14	0.42

Client Sample ID: ELEVATOR PIT

Lab ID#: 1508074-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.028	0.41	0.14	2.0
Chloromethane	0.070	0.43	0.14	0.89
Chloroform	0.028	0.20	0.14	0.98
Carbon Tetrachloride	0.028	0.088 J0	0.17	0.55 J0
Benzene	0.070	0.16	0.22	0.50
Trichloroethene	0.028	0.24	0.15	1.3
Toluene	0.028	0.38	0.10	1.4
Tetrachloroethene	0.028	6.4	0.19	43
Ethyl Benzene	0.028	0.056	0.12	0.24
m,p-Xylene	0.056	0.18	0.24	0.79
o-Xylene	0.028	0.066	0.12	0.29

Client Sample ID: 1ST FLOOR EXHAUST

Lab ID#: 1508074-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: 1ST FLOOR EXHAUST

Lab ID#: 1508074-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.54	1.6	2.7
Toluene	0.32	3.0	1.2	11
Tetrachloroethene	0.32	1.8	2.2	13
Ethyl Benzene	0.32	0.36	1.4	1.5
m,p-Xylene	0.65	0.86	2.8	3.7
o-Xylene	0.32	0.33	1.4	1.4

Client Sample ID: SEWER VENT

Lab ID#: 1508074-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.28	0.43	1.4	2.1
Chloromethane	0.70	0.84	1.4	1.7
Chloroform	0.28	32	1.4	150
Trichloroethene	0.28	0.43	1.5	2.3
Toluene	0.28	1.9	1.0	7.1
Tetrachloroethene	0.28	2.8	1.9	19
Ethyl Benzene	0.28	0.30	1.2	1.3
m,p-Xylene	0.56	0.59	2.4	2.6

Client Sample ID: BG-2 AMBIENT

Lab ID#: 1508074-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.46	0.15	2.3
Chloromethane	0.078	0.44	0.16	0.91
Carbon Tetrachloride	0.031	0.077 J0	0.20	0.48 J0
Benzene	0.078	0.095	0.25	0.30
Toluene	0.031	0.39	0.12	1.5
Ethyl Benzene	0.031	0.044	0.13	0.19
m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.052	0.13	0.22

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Air Toxics

Client Sample ID: IA2 (1ST FLOOR)

Lab ID#: 1508074-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080809sim**	**Date of Collection: 8/6/15 7:51:00 AM**	
Dil. Factor:	**1.61**	**Date of Analysis: 8/8/15 12:19 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.43	0.16	2.1
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.080	0.43	0.17	0.89
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Chloroethane	0.080	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.064	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.64	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.58	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	0.058	0.16	0.28
1,1,1-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.032	0.086 J0	0.20	0.54 J0
Benzene	0.080	0.12	0.26	0.38
1,2-Dichloroethane	0.032	Not Detected	0.13	Not Detected
Trichloroethene	0.032	0.075	0.17	0.40
Toluene	0.032	0.33	0.12	1.2
1,1,2-Trichloroethane	0.032	Not Detected	0.18	Not Detected
Tetrachloroethene	0.032	0.62	0.22	4.2
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.25	Not Detected
Ethyl Benzene	0.032	0.050	0.14	0.22
m,p-Xylene	0.064	0.16	0.28	0.67
o-Xylene	0.032	0.053	0.14	0.23
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: IA4 (2ND FLOOR)

Lab ID#: 1508074-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080811sim**	**Date of Collection:**	**8/6/15 7:47:00 AM**
Dil. Factor:	**1.58**	**Date of Analysis:**	**8/8/15 01:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.45	0.16	2.2
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.079	0.49	0.16	1.0
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.079	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.12	Not Detected
Chloroform	0.032	1.1	0.15	5.4
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.083 J0	0.20	0.52 J0
Benzene	0.079	0.13	0.25	0.42
1,2-Dichloroethane	0.032	0.060	0.13	0.24
Trichloroethene	0.032	1.5	0.17	8.1
Toluene	0.032	0.64	0.12	2.4
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.53	0.21	3.6
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.032	0.095	0.14	0.41
m,p-Xylene	0.063	0.23	0.27	1.0
o-Xylene	0.032	0.10	0.14	0.46
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130

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Air Toxics

Client Sample ID: IA5 MEN'S ROOM (3RD FLOOR)

Lab ID#: 1508074-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080812sim**	**Date of Collection:**	**8/6/15 8:49:00 AM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**8/8/15 02:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.032	0.43	0.16	2.1
Freon 114	0.032	Not Detected	0.22	Not Detected
Chloromethane	0.080	0.55	0.16	1.1
Vinyl Chloride	0.016	Not Detected	0.041	Not Detected
Chloroethane	0.080	Not Detected	0.21	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.063	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.63	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.57	Not Detected
1,1-Dichloroethane	0.032	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.032	Not Detected	0.13	Not Detected
Chloroform	0.032	1.3	0.16	6.6
1,1,1-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.032	0.067 J0	0.20	0.42 J0
Benzene	0.080	0.14	0.25	0.43
1,2-Dichloroethane	0.032	0.049	0.13	0.20
Trichloroethene	0.032	1.2	0.17	6.5
Toluene	0.032	0.68	0.12	2.6
1,1,2-Trichloroethane	0.032	Not Detected	0.17	Not Detected
Tetrachloroethene	0.032	0.70	0.22	4.7
1,2-Dibromoethane (EDB)	0.032	Not Detected	0.24	Not Detected
Ethyl Benzene	0.032	0.11	0.14	0.47
m,p-Xylene	0.064	0.26	0.28	1.1
o-Xylene	0.032	0.097	0.14	0.42
1,1,2,2-Tetrachloroethane	0.032	Not Detected	0.22	Not Detected
1,4-Dichlorobenzene	0.032	Not Detected	0.19	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	95	70-130

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Air Toxics

Client Sample ID: ELEVATOR PIT

Lab ID#: 1508074-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081009sim**	**Date of Collection:**	**8/6/15 7:41:00 AM**
Dil. Factor:	**1.39**	**Date of Analysis:**	**8/10/15 03:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.028	0.41	0.14	2.0
Freon 114	0.028	Not Detected	0.19	Not Detected
Chloromethane	0.070	0.43	0.14	0.89
Vinyl Chloride	0.014	Not Detected	0.036	Not Detected
Chloroethane	0.070	Not Detected	0.18	Not Detected
1,1-Dichloroethene	0.014	Not Detected	0.055	Not Detected
trans-1,2-Dichloroethene	0.14	Not Detected	0.55	Not Detected
Methyl tert-butyl ether	0.14	Not Detected	0.50	Not Detected
1,1-Dichloroethane	0.028	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.028	Not Detected	0.11	Not Detected
Chloroform	0.028	0.20	0.14	0.98
1,1,1-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Carbon Tetrachloride	0.028	0.088 J0	0.17	0.55 J0
Benzene	0.070	0.16	0.22	0.50
1,2-Dichloroethane	0.028	Not Detected	0.11	Not Detected
Trichloroethene	0.028	0.24	0.15	1.3
Toluene	0.028	0.38	0.10	1.4
1,1,2-Trichloroethane	0.028	Not Detected	0.15	Not Detected
Tetrachloroethene	0.028	6.4	0.19	43
1,2-Dibromoethane (EDB)	0.028	Not Detected	0.21	Not Detected
Ethyl Benzene	0.028	0.056	0.12	0.24
m,p-Xylene	0.056	0.18	0.24	0.79
o-Xylene	0.028	0.066	0.12	0.29
1,1,2,2-Tetrachloroethane	0.028	Not Detected	0.19	Not Detected
1,4-Dichlorobenzene	0.028	Not Detected	0.17	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	93	70-130

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Air Toxics

Client Sample ID: 1ST FLOOR EXHAUST

Lab ID#: 1508074-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081016sim**	**Date of Collection:**	**8/6/15 9:29:00 AM**
Dil. Factor:	**16.2**	**Date of Analysis:**	**8/10/15 09:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.32	0.54	1.6	2.7
Freon 114	0.32	Not Detected	2.3	Not Detected
Chloromethane	0.81	Not Detected	1.7	Not Detected
Vinyl Chloride	0.16	Not Detected	0.41	Not Detected
Chloroethane	0.81	Not Detected	2.1	Not Detected
1,1-Dichloroethene	0.16	Not Detected	0.64	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	1.6	Not Detected	5.8	Not Detected
1,1-Dichloroethane	0.32	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.32	Not Detected	1.3	Not Detected
Chloroform	0.32	Not Detected	1.6	Not Detected
1,1,1-Trichloroethane	0.32	Not Detected	1.8	Not Detected
Carbon Tetrachloride	0.32	Not Detected UJ	2.0	Not Detected UJ
Benzene	0.81	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.32	Not Detected	1.3	Not Detected
Trichloroethene	0.32	Not Detected	1.7	Not Detected
Toluene	0.32	3.0	1.2	11
1,1,2-Trichloroethane	0.32	Not Detected	1.8	Not Detected
Tetrachloroethene	0.32	1.8	2.2	13
1,2-Dibromoethane (EDB)	0.32	Not Detected	2.5	Not Detected
Ethyl Benzene	0.32	0.36	1.4	1.5
m,p-Xylene	0.65	0.86	2.8	3.7
o-Xylene	0.32	0.33	1.4	1.4
1,1,2,2-Tetrachloroethane	0.32	Not Detected	2.2	Not Detected
1,4-Dichlorobenzene	0.32	Not Detected	1.9	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Air Toxics

Client Sample ID: SEWER VENT

Lab ID#: 1508074-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081015sim**	**Date of Collection:**	**8/6/15 8:21:00 AM**
Dil. Factor:	**13.9**	**Date of Analysis:**	**8/10/15 08:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.28	0.43	1.4	2.1
Freon 114	0.28	Not Detected	1.9	Not Detected
Chloromethane	0.70	0.84	1.4	1.7
Vinyl Chloride	0.14	Not Detected	0.36	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
1,1-Dichloroethene	0.14	Not Detected	0.55	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
1,1-Dichloroethane	0.28	Not Detected	1.1	Not Detected
cis-1,2-Dichloroethene	0.28	Not Detected	1.1	Not Detected
Chloroform	0.28	32	1.4	150
1,1,1-Trichloroethane	0.28	Not Detected	1.5	Not Detected
Carbon Tetrachloride	0.28	Not Detected UJ	1.7	Not Detected UJ
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.28	Not Detected	1.1	Not Detected
Trichloroethene	0.28	0.43	1.5	2.3
Toluene	0.28	1.9	1.0	7.1
1,1,2-Trichloroethane	0.28	Not Detected	1.5	Not Detected
Tetrachloroethene	0.28	2.8	1.9	19
1,2-Dibromoethane (EDB)	0.28	Not Detected	2.1	Not Detected
Ethyl Benzene	0.28	0.30	1.2	1.3
m,p-Xylene	0.56	0.59	2.4	2.6
o-Xylene	0.28	Not Detected	1.2	Not Detected
1,1,2,2-Tetrachloroethane	0.28	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.28	Not Detected	1.7	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

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Air Toxics

Client Sample ID: BG-2 AMBIENT

Lab ID#: 1508074-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081014sim**	**Date of Collection: 8/6/15 7:38:00 AM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/10/15 07:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.031	0.46	0.15	2.3
Freon 114	0.031	Not Detected	0.22	Not Detected
Chloromethane	0.078	0.44	0.16	0.91
Vinyl Chloride	0.016	Not Detected	0.040	Not Detected
Chloroethane	0.078	Not Detected	0.20	Not Detected
1,1-Dichloroethene	0.016	Not Detected	0.061	Not Detected
trans-1,2-Dichloroethene	0.16	Not Detected	0.61	Not Detected
Methyl tert-butyl ether	0.16	Not Detected	0.56	Not Detected
1,1-Dichloroethane	0.031	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.031	Not Detected	0.12	Not Detected
Chloroform	0.031	Not Detected	0.15	Not Detected
1,1,1-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Carbon Tetrachloride	0.031	0.077 J0	0.20	0.48 J0
Benzene	0.078	0.095	0.25	0.30
1,2-Dichloroethane	0.031	Not Detected	0.12	Not Detected
Trichloroethene	0.031	Not Detected	0.17	Not Detected
Toluene	0.031	0.39	0.12	1.5
1,1,2-Trichloroethane	0.031	Not Detected	0.17	Not Detected
Tetrachloroethene	0.031	Not Detected	0.21	Not Detected
1,2-Dibromoethane (EDB)	0.031	Not Detected	0.24	Not Detected
Ethyl Benzene	0.031	0.044	0.13	0.19
m,p-Xylene	0.062	0.14	0.27	0.59
o-Xylene	0.031	0.052	0.13	0.22
1,1,2,2-Tetrachloroethane	0.031	Not Detected	0.21	Not Detected
1,4-Dichlorobenzene	0.031	Not Detected	0.19	Not Detected

J0 = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

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Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1508074-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080807sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/15 10:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.050	Not Detected	0.10	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected UJ	0.12	Not Detected UJ
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1508074-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081008sim**	**Date of Collection: NA**	
Dil. Factor:	**1.68**	**Date of Analysis: 8/10/15 02:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	Not Detected	0.17	Not Detected
Freon 114	0.034	Not Detected	0.23	Not Detected
Chloromethane	0.084	Not Detected	0.17	Not Detected
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Chloroethane	0.084	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	Not Detected	0.13	Not Detected
Chloroform	0.034	Not Detected	0.16	Not Detected
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	Not Detected UJ	0.21	Not Detected UJ
Benzene	0.084	Not Detected	0.27	Not Detected
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	Not Detected	0.18	Not Detected
Toluene	0.034	Not Detected	0.13	Not Detected
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	Not Detected	0.23	Not Detected
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	Not Detected	0.14	Not Detected
m,p-Xylene	0.067	Not Detected	0.29	Not Detected
o-Xylene	0.034	Not Detected	0.14	Not Detected
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected

UJ = Analyte associated with low bias in the CCV and/or LCS.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: CCV

Lab ID#: 1508074-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080805sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/15 09:18 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	84
Chloromethane	101
Vinyl Chloride	100
Chloroethane	94
1,1-Dichloroethene	84
trans-1,2-Dichloroethene	91
Methyl tert-butyl ether	94
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	93
Chloroform	87
1,1,1-Trichloroethane	88
Carbon Tetrachloride	62 Q
Benzene	78
1,2-Dichloroethane	87
Trichloroethene	76
Toluene	85
1,1,2-Trichloroethane	82
Tetrachloroethene	78
1,2-Dibromoethane (EDB)	84
Ethyl Benzene	91
m,p-Xylene	97
o-Xylene	95
1,1,2,2-Tetrachloroethane	86
1,4-Dichlorobenzene	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1508074-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081003sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 10:51 AM**

Compound	%Recovery
Freon 12	93
Freon 114	85
Chloromethane	96
Vinyl Chloride	96
Chloroethane	93
1,1-Dichloroethene	86
trans-1,2-Dichloroethene	93
Methyl tert-butyl ether	97
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	93
Chloroform	89
1,1,1-Trichloroethane	90
Carbon Tetrachloride	61 Q
Benzene	80
1,2-Dichloroethane	93
Trichloroethene	79
Toluene	86
1,1,2-Trichloroethane	86
Tetrachloroethene	81
1,2-Dibromoethane (EDB)	88
Ethyl Benzene	93
m,p-Xylene	98
o-Xylene	96
1,1,2,2-Tetrachloroethane	87
1,4-Dichlorobenzene	86

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 1508074-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080803sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/15 07:12 AM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	98	70-130
Chloromethane	105	70-130
Vinyl Chloride	107	70-130
Chloroethane	105	70-130
1,1-Dichloroethene	93	70-130
trans-1,2-Dichloroethene	86	70-130
Methyl tert-butyl ether	99	70-130
1,1-Dichloroethane	103	70-130
cis-1,2-Dichloroethene	112	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	112	60-140
Benzene	88	70-130
1,2-Dichloroethane	101	70-130
Trichloroethene	85	70-130
Toluene	94	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	89	70-130
1,2-Dibromoethane (EDB)	96	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	106	70-130
o-Xylene	105	70-130
1,1,2,2-Tetrachloroethane	99	70-130
1,4-Dichlorobenzene	96	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1508074-10AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e080804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/15 07:55 AM**	

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	96	70-130
Chloromethane	104	70-130
Vinyl Chloride	106	70-130
Chloroethane	106	70-130
1,1-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	86	70-130
Methyl tert-butyl ether	98	70-130
1,1-Dichloroethane	102	70-130
cis-1,2-Dichloroethene	110	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	96	70-130
Carbon Tetrachloride	112	60-140
Benzene	87	70-130
1,2-Dichloroethane	99	70-130
Trichloroethene	85	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	88	70-130
1,2-Dibromoethane (EDB)	96	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	105	70-130
o-Xylene	106	70-130
1,1,2,2-Tetrachloroethane	98	70-130
1,4-Dichlorobenzene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

eurofins

Air Toxics

Client Sample ID: LCS

Lab ID#: 1508074-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081004sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 11:35 AM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	98	70-130
Chloromethane	106	70-130
Vinyl Chloride	108	70-130
Chloroethane	107	70-130
1,1-Dichloroethene	94	70-130
trans-1,2-Dichloroethene	88	70-130
Methyl tert-butyl ether	102	70-130
1,1-Dichloroethane	105	70-130
cis-1,2-Dichloroethene	113	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	99	70-130
Carbon Tetrachloride	114	60-140
Benzene	89	70-130
1,2-Dichloroethane	102	70-130
Trichloroethene	87	70-130
Toluene	95	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	90	70-130
1,2-Dibromoethane (EDB)	97	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	108	70-130
1,1,2,2-Tetrachloroethane	98	70-130
1,4-Dichlorobenzene	94	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1508074-10BB

MODIFIED EPA METHOD TO-15 GC/MS SIM

File Name:	**e081005sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/10/15 12:20 PM**	

Compound	%Recovery	Method Limits
Freon 12	103	70-130
Freon 114	97	70-130
Chloromethane	105	70-130
Vinyl Chloride	106	70-130
Chloroethane	109	70-130
1,1-Dichloroethene	95	70-130
trans-1,2-Dichloroethene	87	70-130
Methyl tert-butyl ether	102	70-130
1,1-Dichloroethane	105	70-130
cis-1,2-Dichloroethene	113	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	97	70-130
Carbon Tetrachloride	112	60-140
Benzene	88	70-130
1,2-Dichloroethane	101	70-130
Trichloroethene	86	70-130
Toluene	94	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	90	70-130
1,2-Dibromoethane (EDB)	97	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	108	70-130
o-Xylene	109	70-130
1,1,2,2-Tetrachloroethane	99	70-130
1,4-Dichlorobenzene	98	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

CHAIN OF CUSTODY RECORD

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0461

PROJECT NAME: RED+KAISER KLEANERS 6239 COLLEGE AVE. OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) Michael Bass-Deschenes [signature]

	SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION: Initial Vac	Final Vac	Summa #	NUMBER OF CONTAINERS	ANALYSIS(ES): TO-15	PRESERVATIVE	REMARKS
01A	IA3 (1st Floor)	8/6/15	[illegible]	AIR	-30	-5.0	33503	1	X	NONE	24-HR RUSH
02A	IA4 (2nd Floor)	"	[illegible]	"	-30	-5.0	34493	1	X	"	" "
03A	IA5 MENS ROOM (3rd Floor)	"	[illegible]	"	-30	-5.0	44843	1	X	"	" "
04A	ELEVATOR PIT	"	[illegible]	"	-30	-6.5	35381	1	X	"	" "
05A	1st FLOOR EXHAUST	"	[illegible]	"	-30	-5.5	35170	1	X	"	" "
06A	SEWER VENT	"	[illegible]	"	-30	-1.5	34415	1	X	"	" "
07A	PG-2 AMBIENT	"	[illegible]	"	-30	-5.0	5634	1	X	"	" "

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment) / Total No. of Containers (This Shipment)	LABORATORY:
[signature]	8/7/15	0600	[signature]	7 / 7	EUROFINS AIR TOXICS LTD
RELINQUISHED BY: (SIGNATURE) [signature]	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT: Kyle Vagadori	LABORATORY PHONE NUMBER: (916) 605-3339
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO	

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: FLOW CONTROLLER 24HR (SIM CERTIFIED)
6-LITER SUMMA

Revised COC received via email on 8/7/2015 CMC 8/7/15

1508074

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER: 0461

PROJECT NAME: RED HANGER KLEANERS 6239 COLLEGE AVE. OAKLAND, CA

SAMPLED BY: (PRINTED & SIGNATURE) Michael Bass-Deschenes

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION: INIT VAC	FINAL VAC	SUMMA #	NUMBER OF CONTAINERS	ANALYSIS(ES): TO-15	PRESERVATIVE	REMARKS
IA5 ELEVATOR PIT	8/6/15	0841 / 0805	AIR	-30	-0.5	35289	1	X	NONE	24 HOUR TAT
MEN'S ROOM (3rd FLOOR)		0841 / 0911		-30	-5.0	94943	1			
IA2 (1st Floor)		0751 / 0825		-30	-5.0	32503	1			
1st FLOOR EXHAUST		0829 / 0932		-30	-5.5	35170	1			
IA4 (2nd FLOOR)		0747 / 0812		-30	-5.0	34493	1			
SEWER VENT		0821 / 0850		-30	-1.50	34415	1			
BG-2 AMBIENT		0736 / 0935		-30	-5.0	5624	1			

Custody Seal Intact?
Y N None Temp N/A
EATLDO

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	Total No. of Samples (This Shipment)	7	LABORATORY:
	8/7/15	0000		Total No. of Containers (This Shipment)	7	EUROFINS AIR TOXICS, LTD
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	LABORATORY CONTACT:		LABORATORY PHONE NUMBER:
	8-9-15	1157		KYLE VAGADORI		(916) 605-3339
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ( ) YES (X) NO		

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS: FLOW CONTROLER - 24 HR (SIM CERTIFIED)
6-LITER SUMMA

Roe, Dilan, Env. Health

From:	PDKing0000@aol.com
Sent:	Saturday, August 08, 2015 6:02 PM
To:	Roe, Dilan, Env. Health; Nowell, Keith, Env. Health
Cc:	Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com; ronpatelvidge@gmail.com; WKochenderfer@cs.com
Subject:	Re: RO 2981 Red Hanger Cleaners at 6239 College Ave - End of 8/7/15 Status
Attachments:	coffee stain remover MSDS.pdf; Performance CBS 2015 MSDS.pdf; Photos of cleaners.pdf

Hi Dilan and Keith,

The following information augments my End of 8/6/15 Status Report for the subject site (see thread below).

We received the following images 8/6/15 from Jaime (the person who cleaned the carpet) of the chemicals that were used to clean the carpet (see attached pdf photos of cleaning chemicals). We also received confirmation from Jaime that he only used these two chemicals, that the carpets on both the 2nd and 3rd floor were cleaned on 5/6/15, and that although there were several stains on the carpet on the second floor there was a large coffee stain next to the elevator on the third floor. Note that the indoor air samples were collected 5/29/15. Pdf copies of the MSDSs for the two cleaning chemicals identified by Jaime. TCE was not identified in the MSDS for either chemical.

We deployed 6-liter Summa canisters in the morning on 8/6/15 for collection of one ambient air sample, one Summa canister on each of the three floors of the building at the back of the building, and Summa canisters at an additional 3 locations to evaluate possible conduits from the subsurface to the upper floors (1 Summa in each of the elevator shaft, the sewer pipe vent for the second and third floor toilets, and in the exhaust duct from the former dry cleaner to the roof). We successfully retrieved the Summa canisters 24 hours later on 8/7/15 and the samples were received at the lab on the same day for a 24 rush analysis, with the results due back by the end of Monday 8/10/15

We also collected a lint sample from the first floor exhaust duct on 8/6/15 into VOAs before deploying the Summa canister intake tubing into the duct. The sample was analyzed for EPA Method 8260 compounds as a solid. The lab report was received on 8/7/15 and showed that no analytes were detected.

After speaking with Dilan Roe and Keith Nowell on 8/6/15 and sending floor plans and digital images of HVAC features on the roof and in the former dry cleaner space, I made the following calls to people at regulatory agencies.

o Cheryl Prowell at the RWQCB - See 8/6/15 Status report below.

o Keith Nowell at Alameda County Environmental Health - we reviewed progress on 8/6/15 near the end of the day. Keith asked about contingencies based on the upcoming air sample results. We discussed that if we find evidence of TCE originating from dry cleaner operations at concentrations exceeding TCE URAL concentrations that we provide notification to tenants and review methods to reduce exposure. For the elevator shaft as a conduit we can seal the elevator pit with a coating; for the sewer pipes as a conduit we can perform a smoke test to determine where the pipes are leaking and seal the pipes where they are leaking (the sewer pipes as a conduit are an unlikely scenario because there would be tenant complaints of sewer odors, and there have not been any such complaints); for the ducting from the dry cleaner space as a conduit or source we can remove the ducting. If we do not find evidence of TCE originating from the former dry cleaner operations but we detect TCE at elevated concentrations we can look for consumer product sources in individual suites, including air testing, finding out about who cleans the carpets in the suites, and looking for chemicals in the suites.

o Dan Murphy at the DTSC said to check out DTSC HHRA Note 5 for DTSC-recommended responses. A link to the note is below.

http://www.dtsc.ca.gov/AssessingRisk/upload/HHRA_Note5.pdf

o Karen Toth with the DTSC - See 8/6/15 Status report below. In addition, she said that she temporarily moved a pregnant woman out of a residential structure that had 16 ug/m3 TCE in the air until the TCE concentration was reduced. She also said that increasing the number of air exchanges for the building HVAC was a first step (see HHRA Note 5), in addition to wet shampooing the carpet if we suspect that carpet cleaner might be the source.

Paul

Paul H. King
Professional Geologist

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Oakland, CA 94610

(510) 658-6916 telephone
(510) 834-0152 facsimile
(510) 387-6834 cellular
Paul.King@pdenviro.com

In a message dated 8/7/2015 06:45:49 Pacific Daylight Time, PDKing0000@aol.com writes:

Hi Dilan and Keith,

Here's a brief summary for yesterday of phone calls I made after we got off the phone on 8/6/15.

Cheryl Prowell at the RWQCB said that what we are doing is prudent. We need to determine if we are dealing with a condition related to the former dry cleaner operation, where the URAL would apply, or if we are dealing with a consumer product situation, where CalOSHA PELs would apply. Cheryl is not aware of any URAL exceedance condition cases at the RWQCB and will check with Laurent at the RWQCB to see if he is aware of any such cases.

Karen Toth at the DTSC said that they always re-sample as a first step. She said that based on the limited information that I provided that it sounded like the 2nd and 3rd floor TCE in air is suspiciously a consumer product source, and that the 5/6/15 carpet cleaning event prior to the 5/29/15 indoor air sampling event sounded like a good lead. She also said that if we determine that the carpet is the TCE source that we might try wet shampooing it to see if that gets the TCE air concentrations reduced.

The laboratory checked their calculations and paperwork for the IA4 and IA5 results and determined that the results are valid. The lab also confirmed that they can provide us with the air sample results by the end of Monday for the Summa canisters that we deployed 8/6/15.

Some information about PCE and TCE odor threshold and PEL values that I have put together is as follows:

	PCE	TCE
Reported Odor Threshhold	1 ppm	28 ppm
Odor Threshhold in ug/m^3	6,783	150,479
Reported OSHA PEL	100 ppm	100 ppm
OSHA PEL in ug/m^3	678,323	537,423

The Summa canisters will go to the lab today 8/7/15 for analysis with results requested by the end of Monday.

Paul

Paul H. King
Professional Geologist

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(510) 387-6834 cellular
Paul.King@pdenviro.com

MATERIAL SAFETY DATA SHEET

1.	**Identification of the substances or preparation and of the company**
1.1	Identification of the preparation: **Coffee Stain Remover**
1.2	Company identification: Chemspec Europe Unit 36C, Tong Park Otley Road, Baildon West Yorkshire BD17 7QD UK Tel: 01274 597333 Fax: 01274 597444
1.3	Emergency telephone number, official advisory bodies:
1.3.1	For medical emergency call Chemtrec at 00-1-703 527-3887
2.	**Composition/Information on ingredients**
2.1	Chemical description: Water, Reducing Agent
2.2	Hazardous ingredients: Sodium Bisulfite
3.	**Hazards identification**
3.1	To man: Can cause irritation of the eyes, nose, throat and respiratory system. May produce hypersensitivity in asthmatics.
3.2	To the environment: None known.
4.	**First aid measures**
4.1	Inhalation: Remove to fresh air. If symptoms persist consult physician.
4.2	Eye contact: Flush with water for at least 15 minutes.
4.3	Skin contact: Thoroughly wash exposed skin with soap and water.
4.4	Ingestion: Drink plenty of water. Consult physician.
4.5	Special: Treatment based on judgment of attending physician.
5.	**Fire-fighting measures**
5.1	Suitable extinguishing media: Water, Carbon dioxide, foam.
5.2	Extinguishing media which must not be used: None known.
5.3	Special exposure hazards: Sulfur dioxide and possibly CO, CO_2 and other unidentified compounds.
5.4	Special protection equipment for fire-fighters: Self-contained positive pressure breathing apparatus and protective clothing.
6.	**Accidental release measures**
6.1	Personal precautions: Prevent eye contact.
6.2	Environmental precautions: Dispose of according to local regulations.
6.3	Methods of cleaning up: Sweep or vacuum up and dispose according to regulations.

7.	**Handling and storage**	
7.1	Handling:	Prevent eye contact.
7.2	Storage:	Keep away from oxidizers.
7.3	Other:	None known.
8.	**Exposure controls/personal protection**	
	Please use common sense when handling this product.	
8.1	Respiratory protection:	Use local exhaust or dilution ventilation.
8.2	Hand protection:	Gloves recommended.
8.3	Eye protection:	Safety glasses recommended
8.4	Skin protection:	Use body covered clothing.
8.5	Working hygiene:	Take usual precautions when handling
9.	**Physical and chemical properties**	
9.1.1	Appearance:	Clear liquid.
9.1.2	Color:	Colorless.
9.1.3	Odor:	Sulfuric.
9.2	pH (as used):	4.0-5.0
9.3	Boiling point/Boiling range:	n. av.
9.4	Specific gravity:	1.01-1.02
9.5	Wt/Gal:	8.5
9.6	Flash point:	n. av.
9.7	Inflammation:	n. av.
10.	**Stability and reactivity**	
10.1	Conditions to avoid:	None known.
10.2	Materials to avoid:	Oxidizers, acids, water. Corrosive to most metals.
10.3	Hazardous decomposition of materials:	See point 5.3.
11.	**Toxicological information**	
11.1	Acute toxicity:	n. av.
11.2	Acute oral toxicity: LD50 rat:	n. av.
11.3	Chronic effects:	n. av.
11.4	Sensitization:	n. av.
11.5	Carcinogenicity:	n. ap.
11.6	Mutagenicity:	n. av.
11.7	Reproductive toxicity:	n. av.
11.8	Narcotic effects:	n. av.

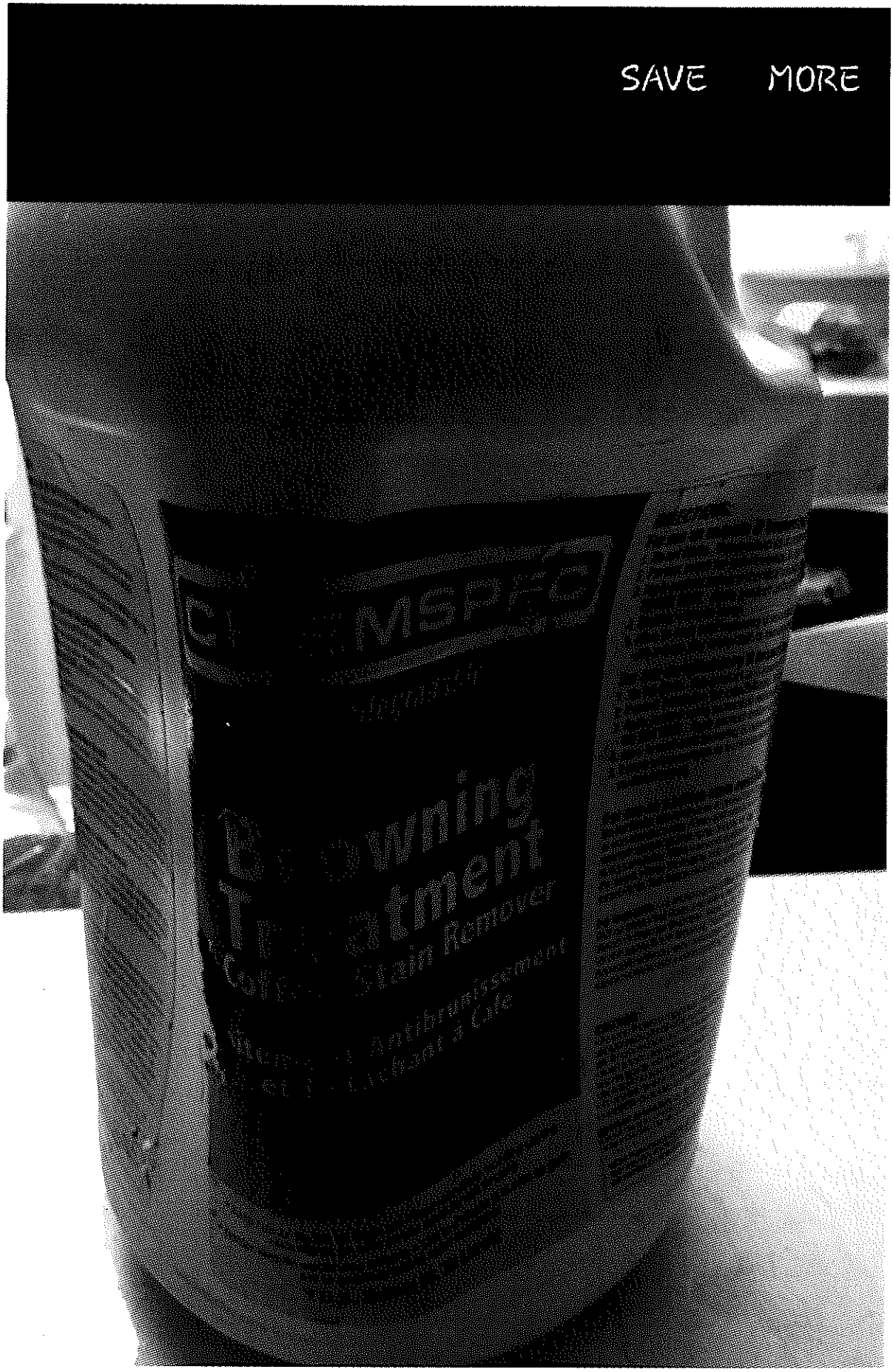
12.	**Ecological information**	
12.1	Water-Hazard class:	None(U.S.)
12.2	Biodegradability:	Biodegradable.
12.3	Bio-accumulation:	n. av.
12.4	Aquatic toxicity:	120 ppm/24, 48 & 96 hr mosquito fish TLm.
12.5	Other relevant ecological information:	Small quantities considered to be harmless.
13.	**Disposal**	
13.1	Refer to local regulations.	
14.	**Transport information**	
	Corrosive, UN#2693, INST #818, IMDG #8126.	
15.	**Regulations**	
15.1	Symbol:	Irritant
15.2	R-Sentences:	Xi;R36, R37
15.3	S-Sentences:	S2, S25, S26, S39, S51
16.	Other Information	

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.

n.ap = not applicable
n.av = not available

SAVE MORE


SAVE MORE

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined
N/A=Not Applicable

Product: PERFORMANCE CBS
Chem. Name: N/A
Chem. Family: Mixture

Manufacturer: ESTEAM
Trade Name: Performance CBS
Use: Carpet cleaning emulsifier

Flammability: 0
Reactivity: 0
Health: 1
Protection:
NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
2 Butoxyethanol	111-76-2	1-5	LD50 1746 mg/kg (oral-rat)	TWA 25 ppm skin
D-limonene	5989-27-5	1-5	LD50 4400 mg/kg (oral-rat)	N/D
Sodium Metasilicate	6834-92-0	5-10	LD50 847 mg/kg (oral-rat)	N/D
Sodium Carbonate Peroxyhdrate	15630-89-4	1-5	N/D	N/D

PHYSICAL DATA

Physical State: Powder
Odor/ Appearance: Yellow/ lemon
Boiling Point (C): N/A
Freezing Point (C): N/A
Solubility in Water: 100 %
Ph (undiluted): N/D
Evaporation Rate: N/A
Specific Gravity: N/A
Freeze/Thaw Stable: Doesn' t
Percent Volatile (vol): N/D
Vapor Pressure: N/A

FIRE & EXPLOSION HAZARD

Flammability: N
Means of Extinction:
Special Procedures: N/A
Explosion Sensitivity to Impact: N/A
Chemical Sensitivity to Static Discharge: N/A
Flashpoint (C) & Method: N/A

Conditions: N/A
Hazardous Combustion Products: N/A
Upper Explosion Limit (% by vol): N/A
Lower Explosion Limit (% by vol): N/A
Auto-ignition: N/A
Rate of Burning: N/A
Explosive Power: N/A

TDG/WHMIS: Non hazardous / D2B

REACTIVITY DATA

Chemical Stability: Stable
Hazardous Decomposition Product: None known
Incompatable Substances: None known

TOXICOLOGICAL PROPERTIES

Route of Entry - Skin Contact:	Y
Route of Entry - Skin Absorption:	N
Route of Entry - Eye Contact:	Y
Route of Entry - Inhalation:	N
Route of Entry - Ingestion:	Y

Reproductive Effects Y/N:	N/D
Carcinogenicity Y/N:	N/D
Mutagenicity Y/N:	N/D
Teratogenicity Y/N:	N/D
TLV:	N/D

Effects of Overexposure:
Acute Effects:
May be irritating to eyes and skin on contact. Inhalation of dust may cause respiratory tract irritation.

Chronic Effects:
Prolonged and repeated contact may cause irritation to skin.

PREVENTATIVE MEASURES

Gloves: Recommended
Eyes: Chemical goggles
Footwear: N/A
Respirator: Dust mask recommended
Clothing: N/A
Other: N/A

Recommended Engineered Controls:
Use with adequate ventilation.

Leak & Spill Procedures:
Sweep up spill. Flush area with water to a sanitary sewer.

Waste Disposal Methods:
According to federal, provincial and municipal regulations.

Special Handling Procedures:
Keep lid on and store in cool dry place. Avoid contact when handling.

FIRST AID MEASURES

Inhalation: Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.

Ingestion: Immediately rinse mouth and throat thoroughly with water. Call a physician.

Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Call a physician.

Skin Contact: Immediately flush skin with running water for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

Prep./Revised Date: January 15, 2015
Prepared By: R. Russell
Source Material: Manufacturer's MSDS
Emergency Response: 1-613-996-6666 (Transport Emergencies)

Mailing Address: Esteam Manufacturing Ltd.
3750-19th Street NE Calgary, AB T2E 6V2

ESTEAM® CLEANING SYSTEMS

Roe, Dilan, Env. Health

From: PDKing0000@aol.com
Sent: Thursday, August 06, 2015 1:07 PM
To: Nowell, Keith, Env. Health; Roe, Dilan, Env. Health
Cc: Gary_Bates@efiglobal.com; patrick@ellwoodcommercial.com
Subject: RO 2981 - Red Hanger Cleaners - Floor Plans and 080515 AM Site Pictures
Attachments: Floor Plans with tenant space ID.ZIP

Hi Dilan and Keith,

The attached floor plans identify entrances from common areas (hallways) to the different tenant spaces, and the roof plan show the locations of different HVAC units for the different tenant spaces. The first floor HVAC consists of a large swamp cooler located on the ground floor at the back of the building with the exhaust on the roof.

The attached pictures from yesterday 8/5/15 show HVAC roof and first floor features.

I just spoke with Kelly Buettner at the lab (916-605-3378, she was the project manager for the SCS air samples). She will look at the calculations for the IA-4 and the IA-5 samples, and also contact SCS for authorization to release the information. I provided Kelly with Dilan's phone number. Kelly and I will talk again after 2 PM today to determine what progress she has made.

I then called Gary Bates and asked him to contact SCS and ask them to authorize the lab to provide me the results of their data evaluation.

Paul

Paul H. King
Professional Geologist

P&D Environmental, Inc.
55 Santa Clara Avenue, Suite 240
Oakland, CA 94610

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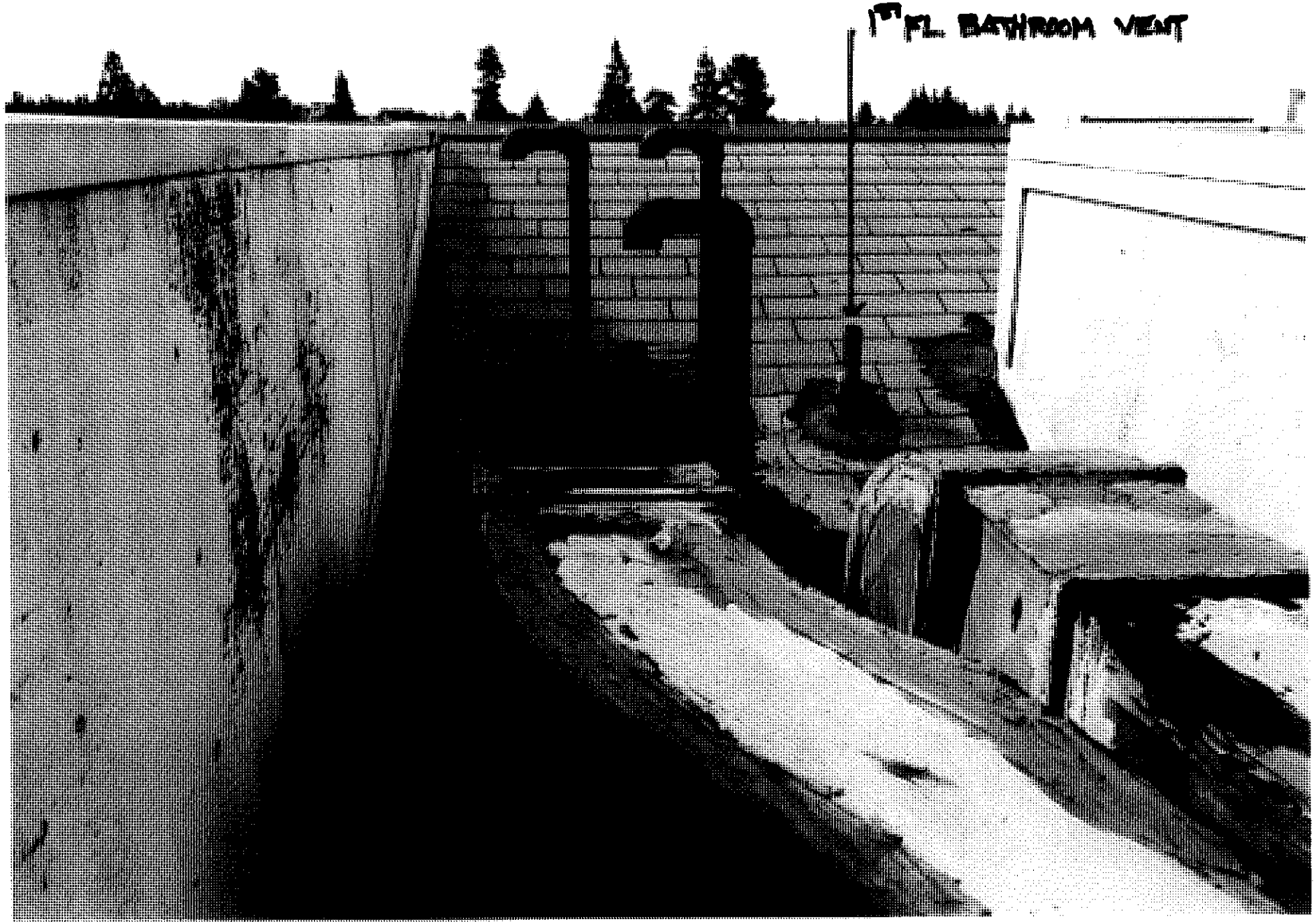
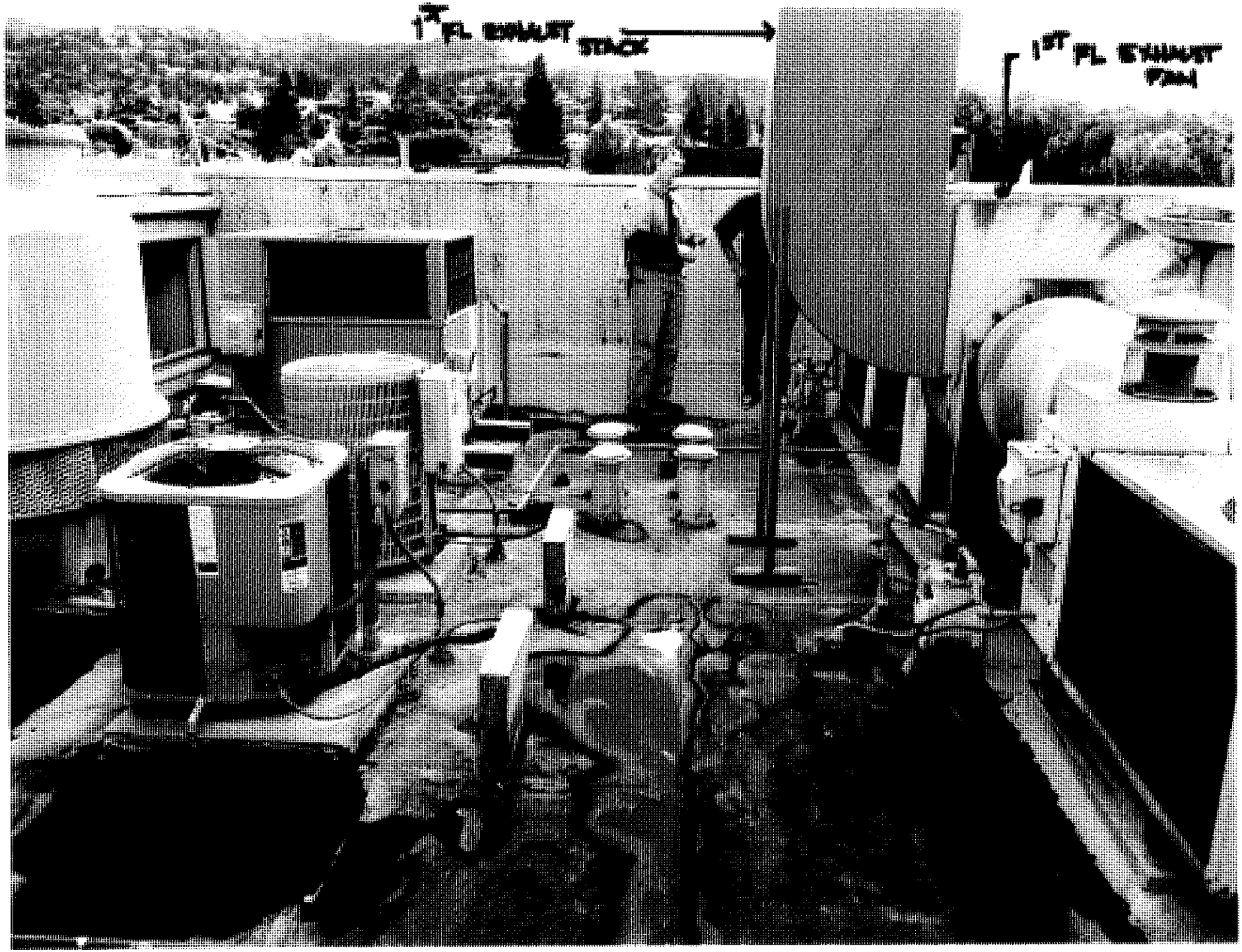
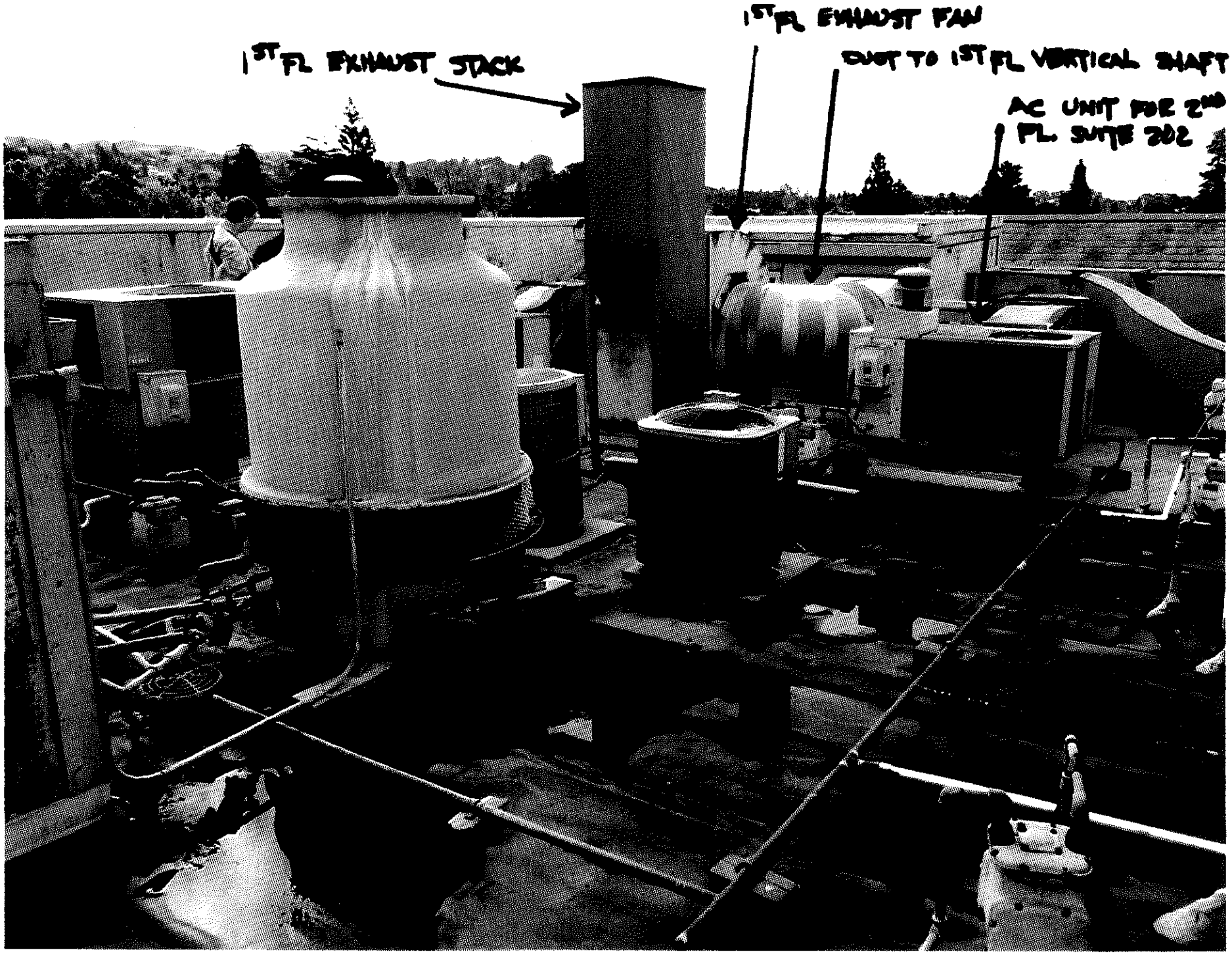
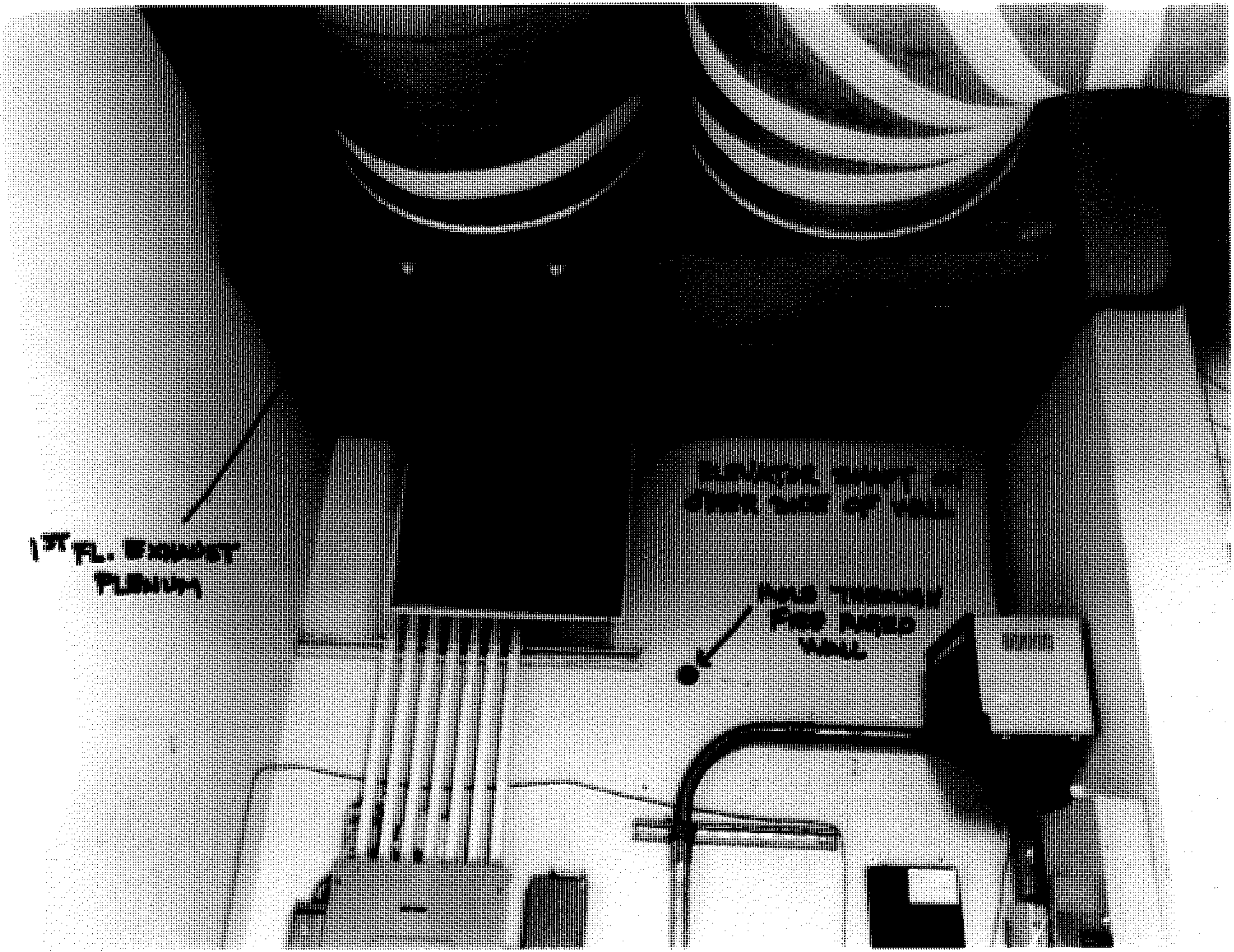
(510) 387-6834 cellular
Paul.King@pdenviro.com

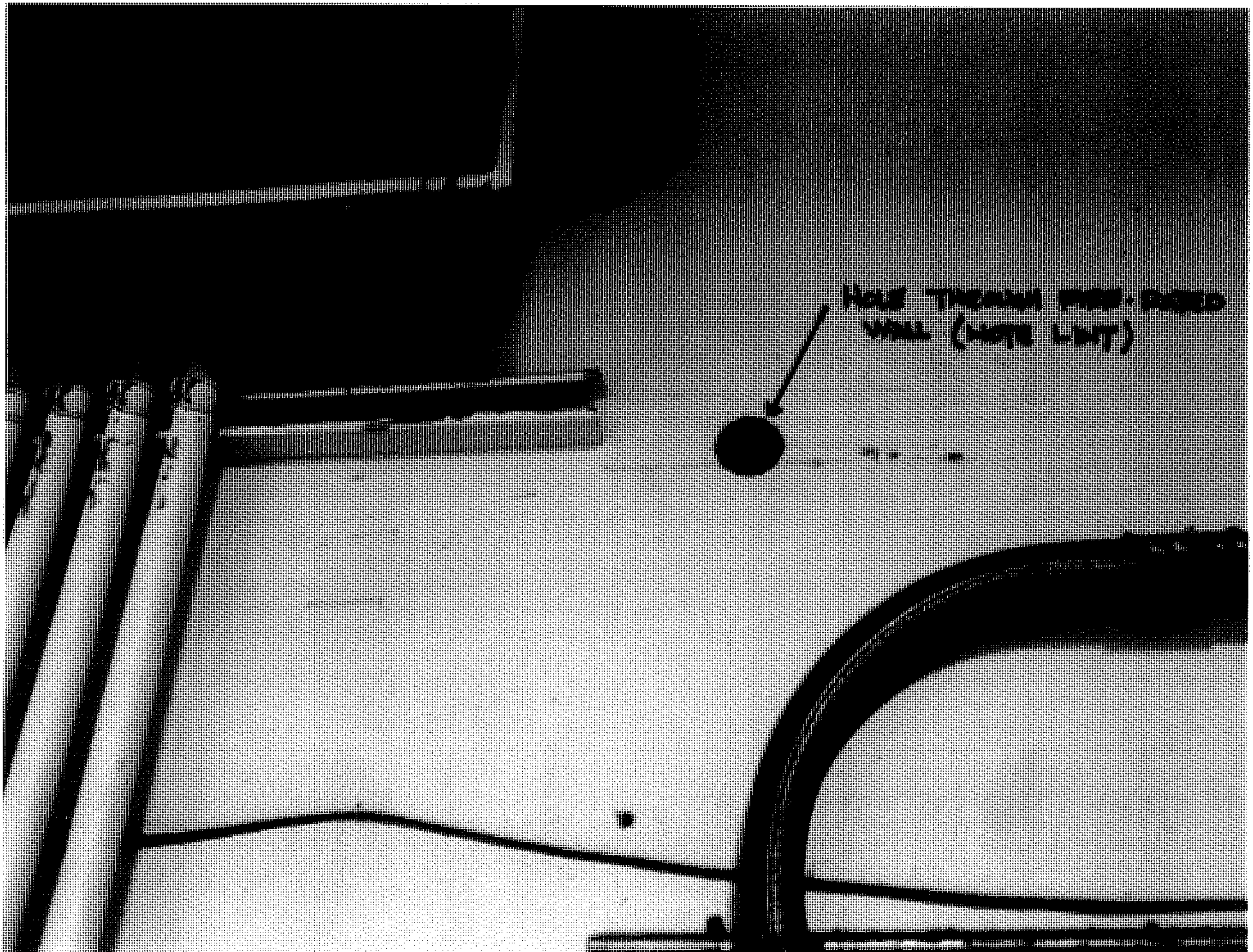

1ST FL. BATHROOM VENT


1ST FL EXHAUST STACK
1ST FL EXHAUST VENT


1ST FL EXHAUST STACK
1ST FL EXHAUST FAN
DUCT TO 1ST FL VERTICAL SHAFT
AC UNIT FOR 2ND FL. SUITE 202


AC UNIT FOR 2ND FL
SUITE
AC UNIT FOR 3RD FL
SUITE
AC UNIT FOR 3RD FL.
SUITE 304


1ST FL. EXHAUST PLENUM
ELEVATOR SHAFT ON OTHER SIDE OF WALL
HOLE THROUGH FIRE RATED WALL


HOLE THROUGH FIRE-RATED
WALL (NOTE LIGHT)

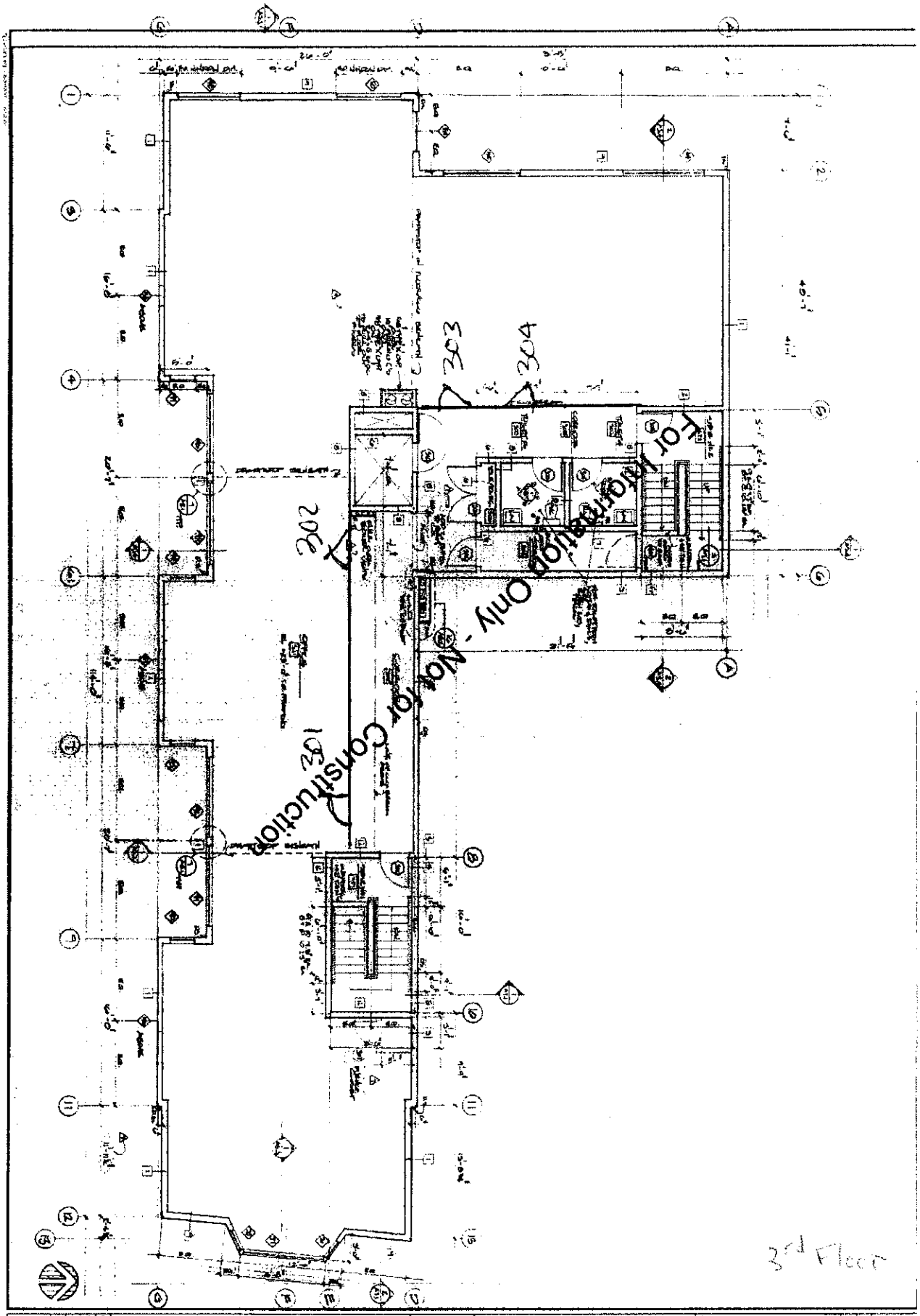
Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Roof Plan

A2.4

*plan*HOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6777

Owner

Issue Dates



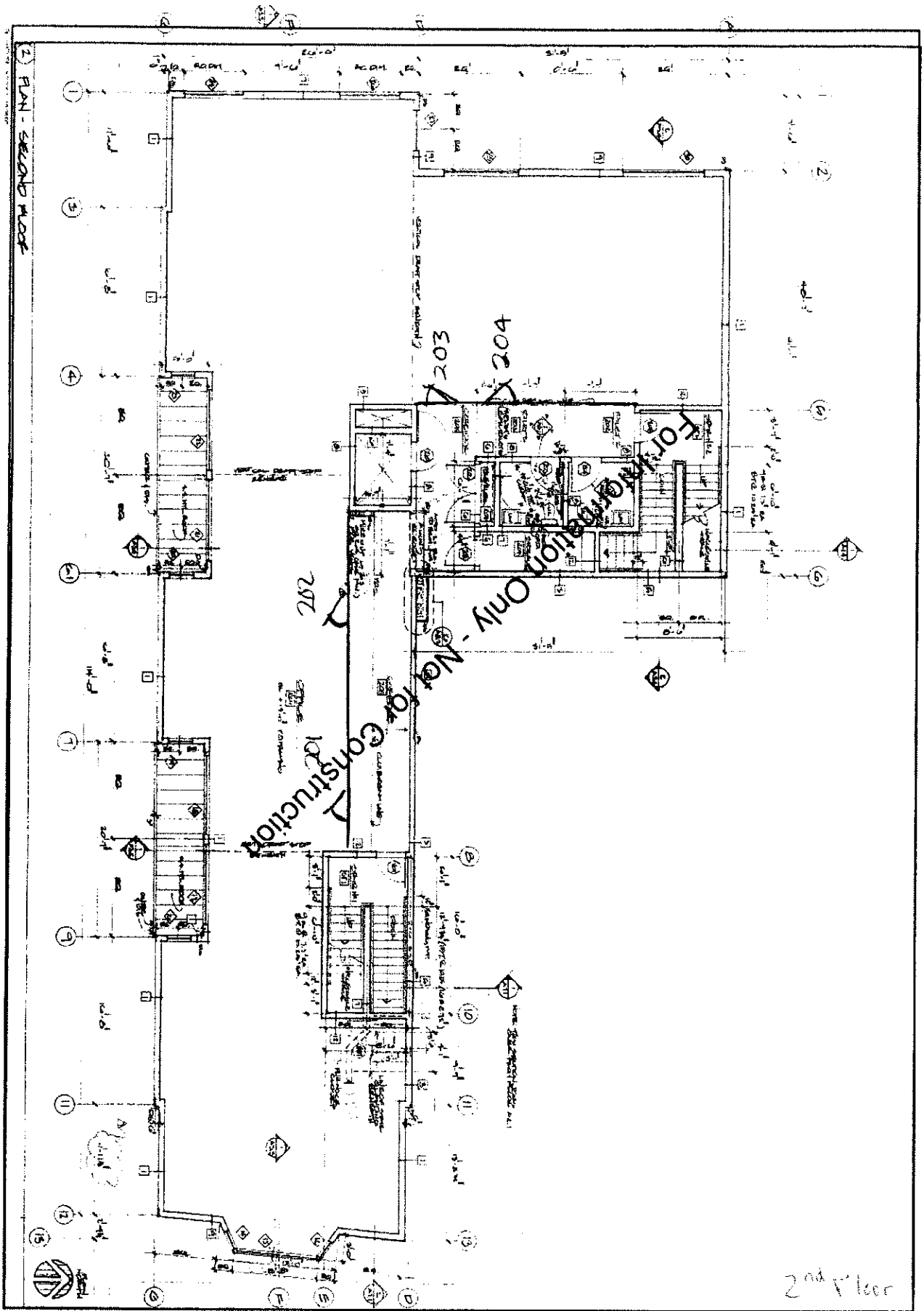
A2.3

Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Third Floor Plan

planHOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 845-6777

Owner

Issue Dates



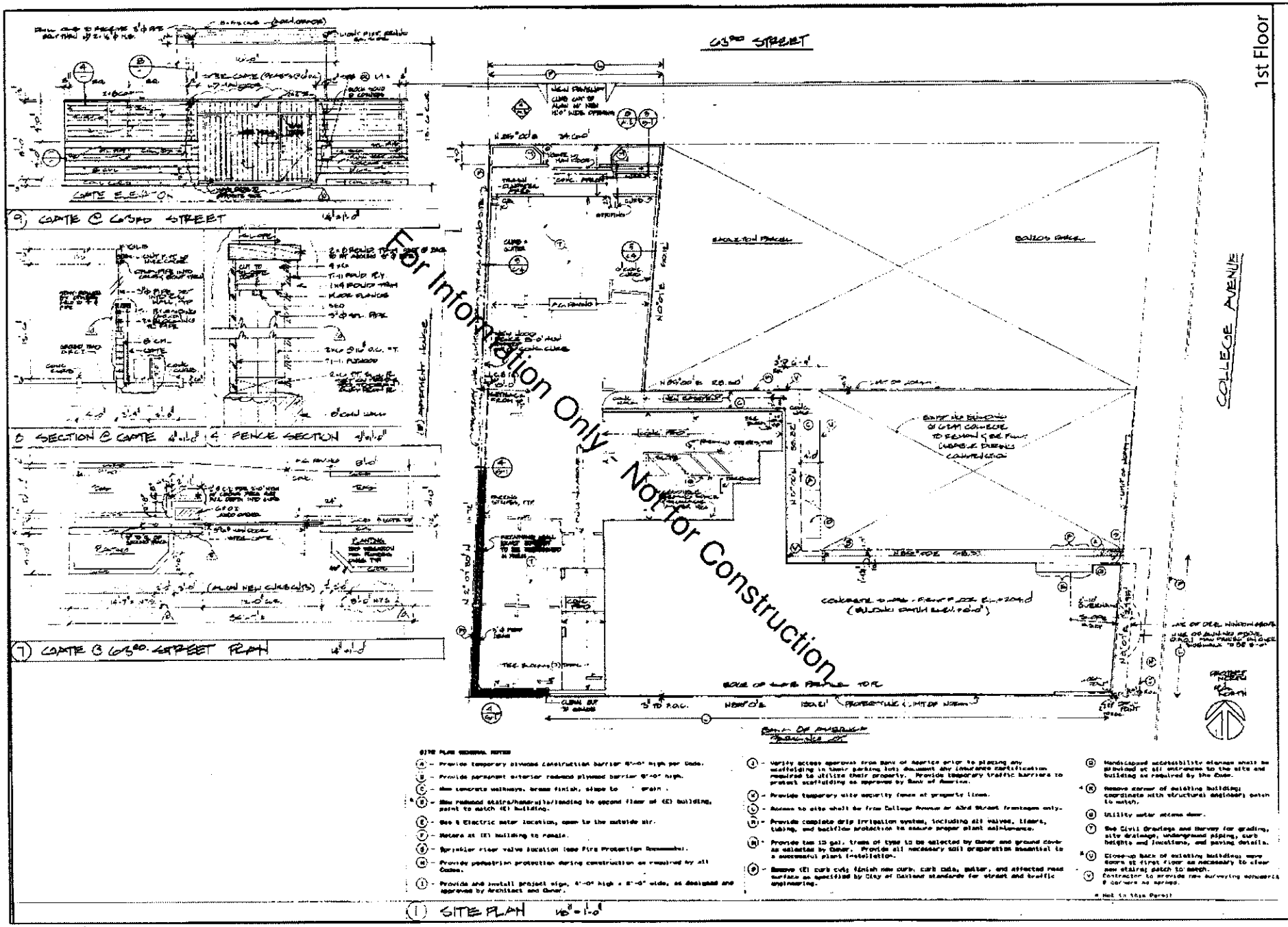
A2.2

Gordon Building
6239 College Avenue, Oakland, CA
Sheet Title: Floor Plans

planHOUSE / **John Britton AIA**
Architecture / Energy Analysis / Planning
940 Dwight Way, Suite One
Berkeley, CA 94710 / (510) 843-6737

Owner

Issue Dates



Issue Dates

Owner

plan HOUSE / John Britton AIA
Architecture / Energy Analysis / Planning
940 Evelight West, Suite One
Berkeley, CA 94710 / (510) 843-6777

Gordon Building

6239 College Avenue, Oakland, CA

Sheet Title: Site Plan

A1.2