



# Coordinated Code Enforcement Response to Asthma and Lead Poisoning Threats in Homes



HEALTH AND SAFETY CODE - HSC  
DIVISION 20. MISCELLANEOUS HEALTH AND SAFETY PROVISIONS [24000 - 26250] ( Division 20 enacted by Stats. 1939, Ch. 60. )  
Officers [26205 - 26217] ( Chapter 20 added by Stats. 2016, Ch. 246, Sec. 2. )

may be cited, as the Code Enforcement Officer Standards Act.  
(AB 2228) Effective January 1, 2017.)

For the following terms have the following meanings:

the Board of Directors of the California Association of Code Enforcement Officers.

California Association of Code Enforcement Officers, a public benefit corporation domiciled in California.

“Code Enforcement Officer” or “CCEO” means a person registered or certified as described in this chapter.

“Officer” has the same meaning as defined in Section 829.5 of the Penal Code.

(AB 246, Sec. 2. (AB 2228) Effective January 1, 2017.)

shall develop and maintain standards for the various classes of CCEOs that it designates. The standards for education, training, and certification shall be established and included in this chapter. CCEOs shall not have the power of arrest except as authorized by the city, county, or city and county charter, or by the state. Information pursuant to this section, but persons regularly employed by a city, county, or city and county designated pursuant to this section, shall be exempt from the reporting need pursuant to subdivision (c) of Section 11105 of the Penal Code if the criteria specified in that section is otherwise met. A person shall be exempt from the criteria set forth in Section 1029 of the Government Code.

HEALTH AND SAFETY CODE - HSC  
DIVISION 20. MISCELLANEOUS HEALTH AND SAFETY PROVISIONS [24000 - 26250]

- CACEO board shall develop and maintain standards for the various classes of Certified Code Enforcement Officers (CCEOs) that it designates
- 1600 MEMBERS est 3000 + CEOs



# SAN DIEGO

**Chris Lee**  
**Lead Safety and Healthy Homes**  
**Coordinator**  
**City of San Diego**



<ftp://ftp.sannet.gov/OUT/ESD/LSHHP/CACEO.zip>



# CACEO 2019 Annual Seminar



October 19  
County of...  
San L...

***Coordinated Code  
Enforcement  
Response to and  
Asthma and Lead  
Poisoning Threats  
in Homes***

## Presentation Overview

1. Background Info
2. Asthma, Mold and Code Enforcement
3. Break
4. Hands On Demonstration of Mold Detection Equipment
5. Lead Poisoning, Lead Hazards Code Enforcement
6. Hands on Demonstration of Lead Detection Equipment
7. Questions



Established 1992



Interventions resulted in 60% reduction in asthma-related hospitalizations



Lead Poisoning Prevention



Asthma triggers and/or lead hazards remediated in more than 2700 homes

ALAMEDA COUNTY  
**Healthy Homes  
Department**



Programming includes expertise in environmental health, public health, construction

ONE-THIRD OF CALIFORNIA'S HIGH-RISK KIDS NOT TESTED FOR LEAD POISONING



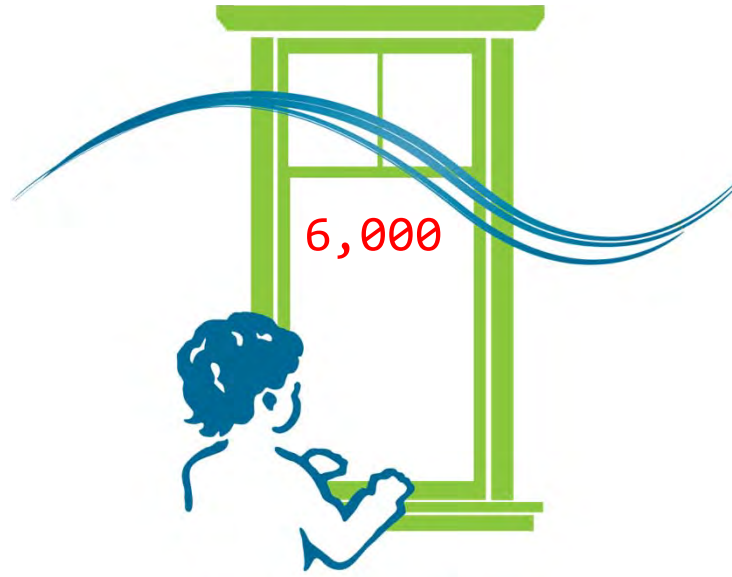
One-Third of California's High-Risk

TUESDAY, SEPTEMBER 19, 2017

By Susan Little, Senior Advocate for California Government Affairs, and Chris

"Our Vision is that every person in Alameda County will live in a safe and healthy home."

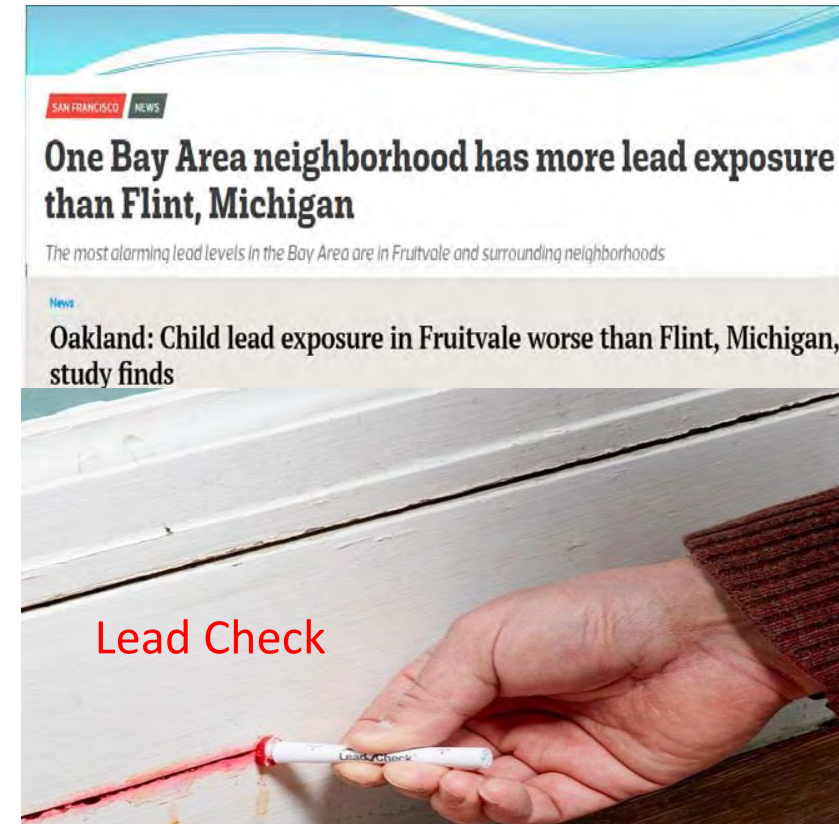
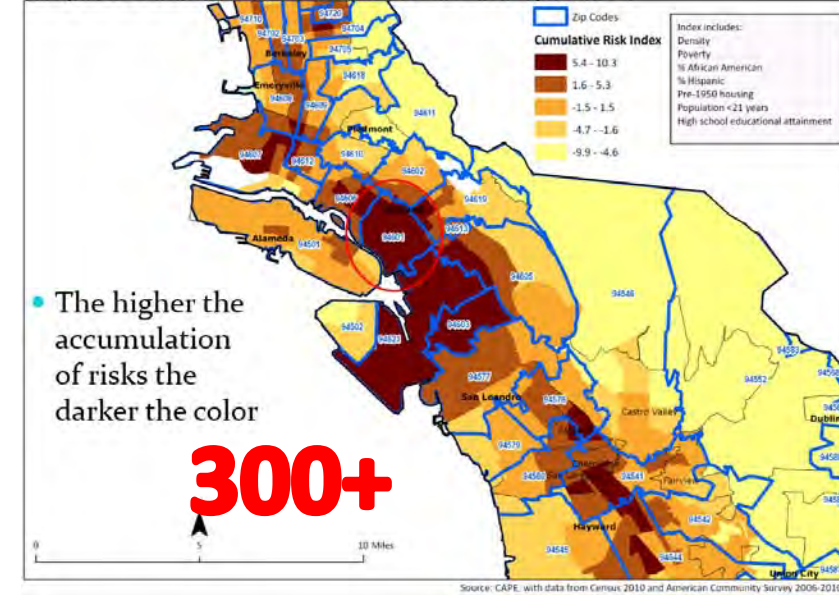
The Alameda County Healthy Homes Department provides innovative, multi-disciplinary programs that offer Env Investigations, consultations, nurse case management, technical assistance, HUD grants Lead Safety Training and other services to prevent lead poisoning and promote health and safety in the home.



ALAMEDA COUNTY  
**Healthy Homes  
Department**



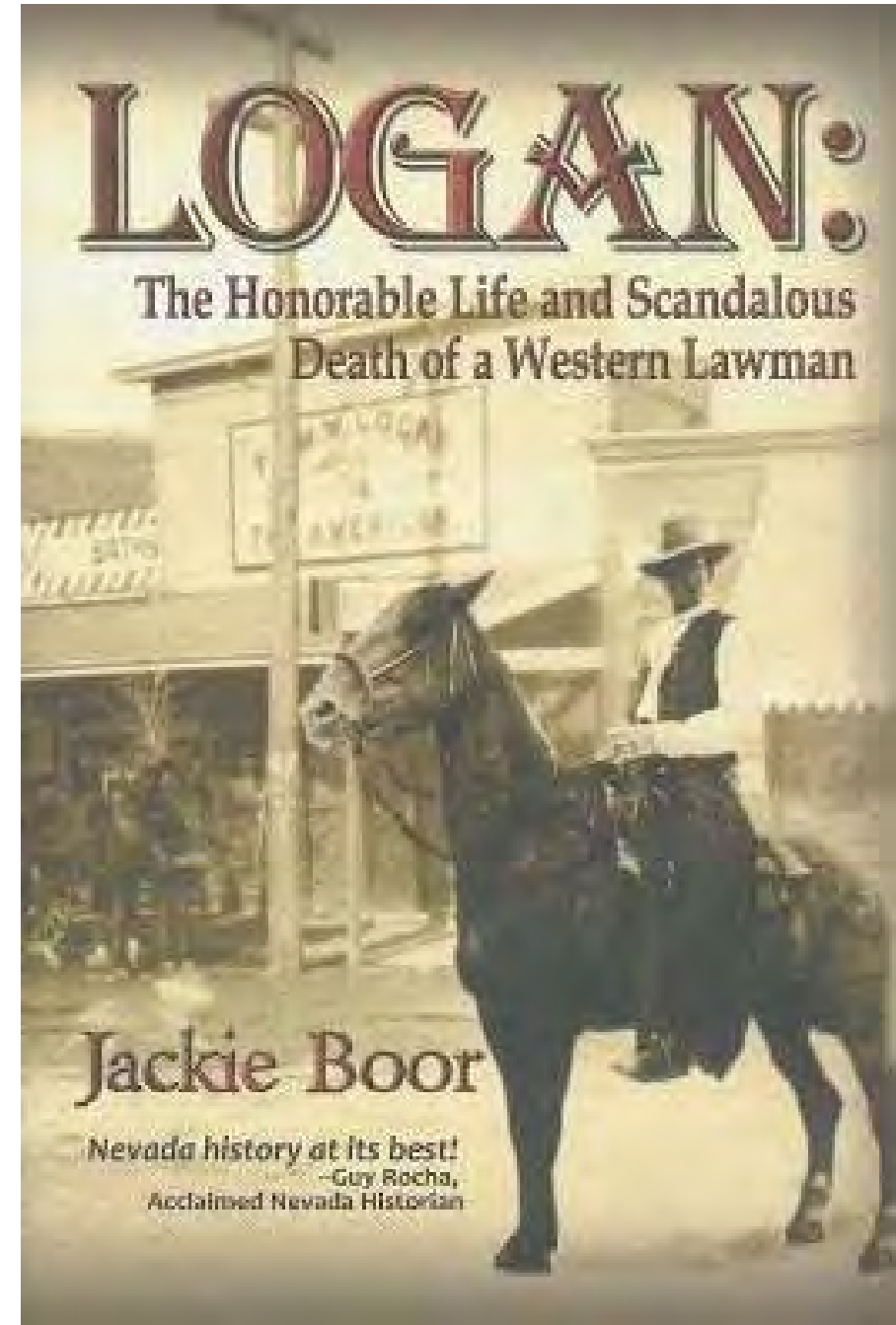
Map 13. Areas of Cumulative Risk with Zip Codes



*The discovery of gold generated the bulk of lawlessness that made the West wild and the Colt six-shooter often more powerful than any law book stored on a shelf. Between 1850 and 1890, approximately 20,000 men were killed in gunfights, an all-too-frequent method for settling disputes. Sheriffs could at-will declare a renegade desperado as “bearing the wolf’s head,” thereby granting permission to kill on sight as they would a wild animal. Translation: Wanted Dead or Alive, legal rights optional.*

*Sheriffs were usually elected to office, although occasionally appointed. Previous law enforcement experience was not required, but both job and life depended heavily on being a quick study. **Entrusted to tackle vice and all manifestations of disorder, the frontier sheriff relied on personal prowess, gut instinct, steady nerves, and recurrent strokes of ingenuity.** He also had to be amply skilled with a sidearm, proficient with horses, and able to round up a posse in swift fashion. Some were certainly more capable than others, and more than a few succumbed to bribery and other corrupt enticements. Still, history attests the majority stood firm and stalwart in their oaths to protect and serve. In the latter half of the nineteenth century, these often forgotten lawmen served at the forefront of converting unruly encampments into civilized municipalities. **With constantly evolving duties,** they fought and cajoled, jailed and punished, sacrificed and bled for the common good.*

*And some, like Tom Logan, lost their lives in the line of duty.*



# CODE ENFORCEMENT ORIGINS



Tom Logan's saloon, "The American," Main Street and Brougner Avenue, Tonopah, Nevada - c. 1905



# The Link Between Housing & Health



**“The connection between health and the dwelling of the population is one of the most important that exists”.**

***Florence Nightingale***  
1820–1910

Cited in Lowry, S. *BMJ*, 1991, 303, 838-840

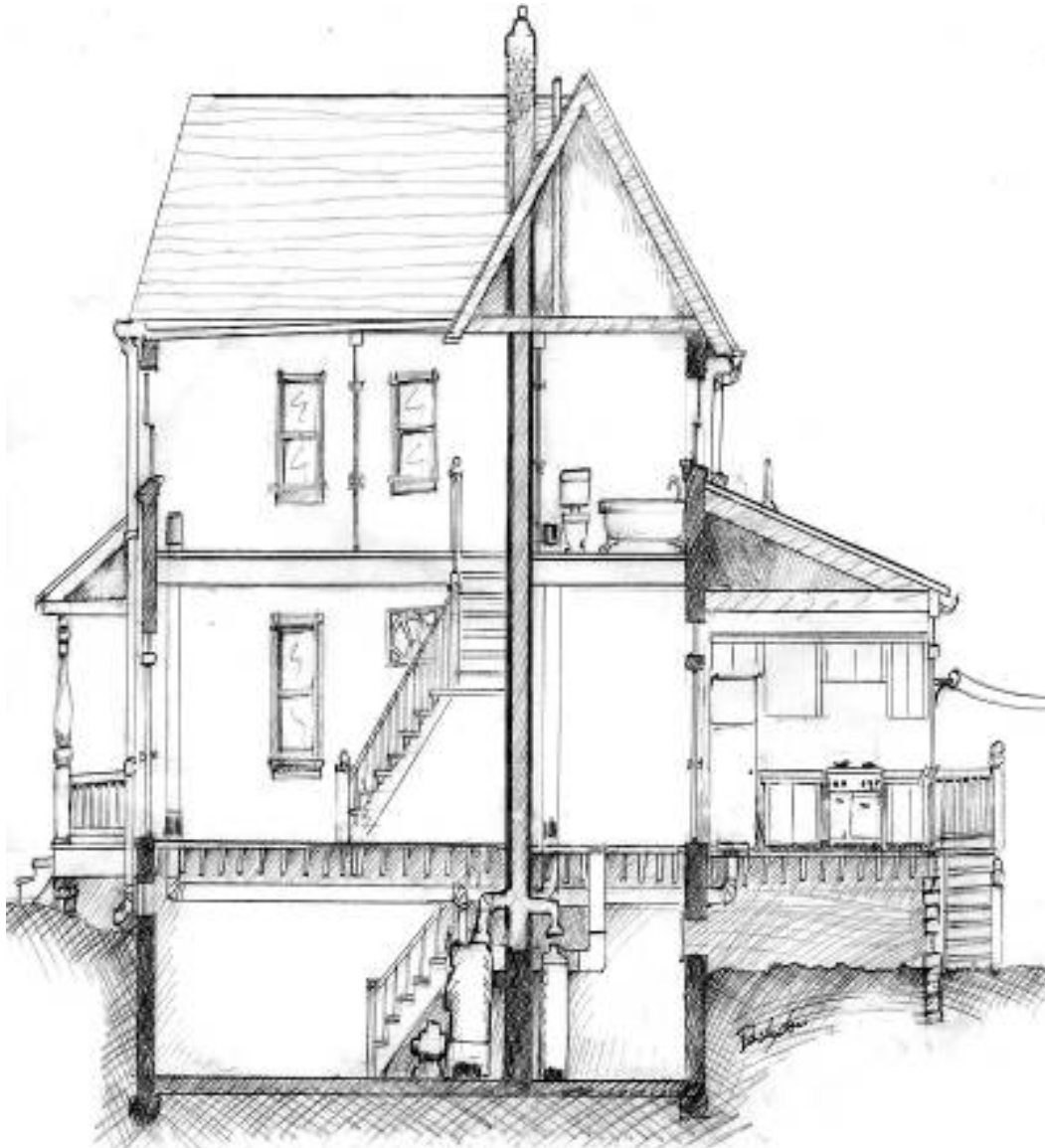
# What is Healthy Housing?

According to the Centers for Disease Control (CDC)

- A “healthy home” is one that is sited, designed, built, renovated, and maintained to support health
- (A system of) Seven (7) principles which when taken together is a **coordinated, comprehensive, and holistic approach to preventing diseases and injuries that result from housing-related hazards and deficiencies**



# 7 8 Healthy Homes Principles



## Keep It:

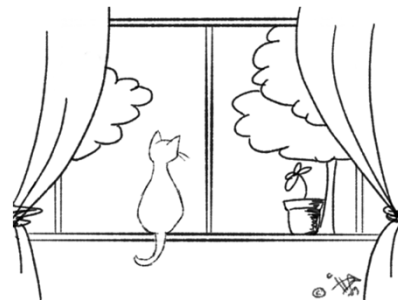
1. Dry
2. Clean
3. Ventilated
4. Pest-Free
5. Safe
6. Contaminant-Free
7. Maintained
8. Thermally Controlled

# HOUSING HEALTH = PEOPLE HEALTH

Housing	Health
● Dampness	Asthma
● Pest Infestation	Allergies
● Ventilation	Diseases
● Contaminates	Poisonings
● Maintained	Injury

## BEHAVIOR vs. STRUCTURE

<ul style="list-style-type: none"><li>• Occupant activity</li></ul>	<ul style="list-style-type: none"><li>• Owner building maintenance</li></ul>
<ul style="list-style-type: none"><li>• Opening window</li><li>• Using exhaust fan</li></ul>	<ul style="list-style-type: none"><li>• Installing or maintaining exhaust fan</li></ul>
<ul style="list-style-type: none"><li>• Wiping up spills</li></ul>	<ul style="list-style-type: none"><li>• Fix plumbing leaks</li></ul>
<ul style="list-style-type: none"><li>• Drying areas of condensation</li></ul>	<ul style="list-style-type: none"><li>• Installing double-paned windows</li><li>• Performing weather-stripping</li></ul>

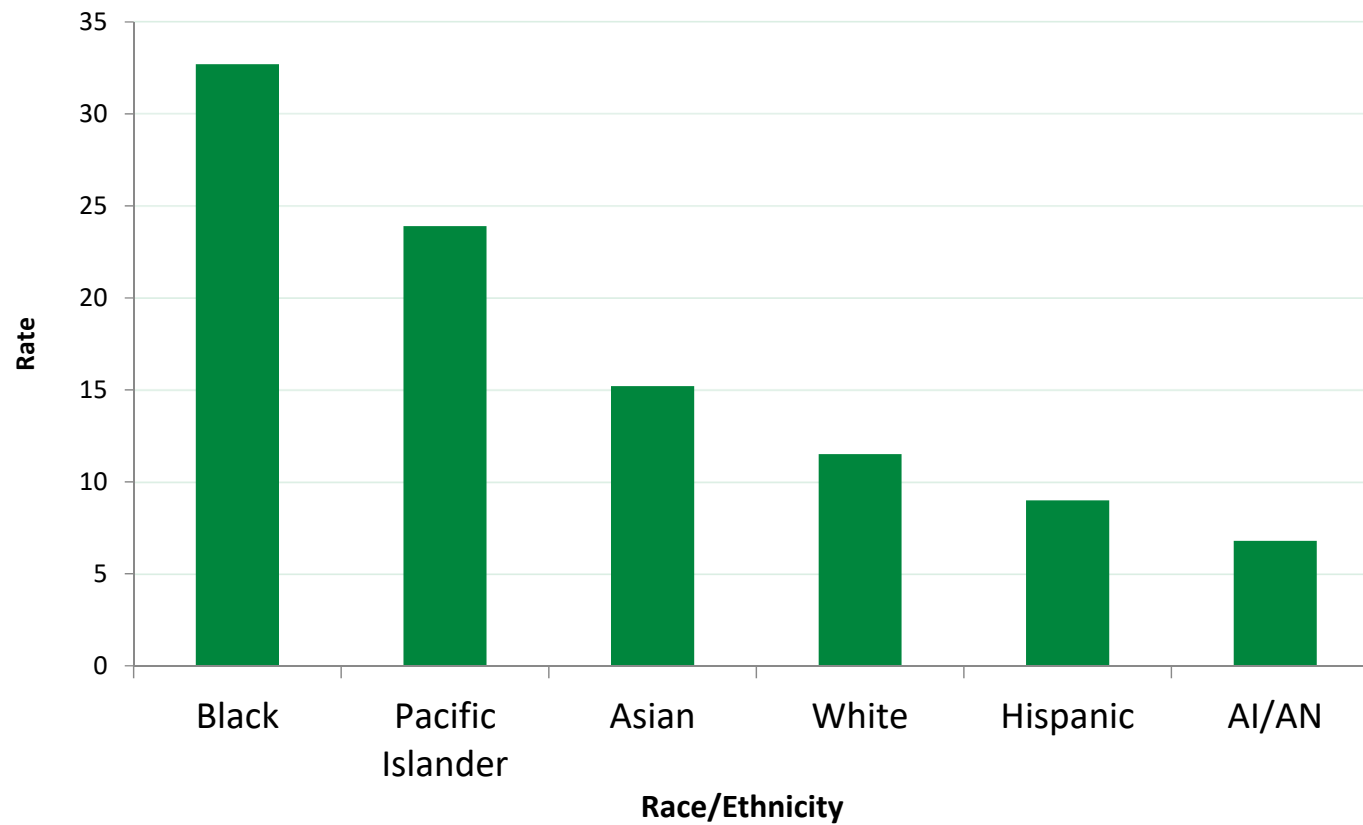


Potential complications  
of asthma during  
**PREGNANCY**

- High blood pressure and pre-eclampsia
- Premature birth
- Low infant birth weight



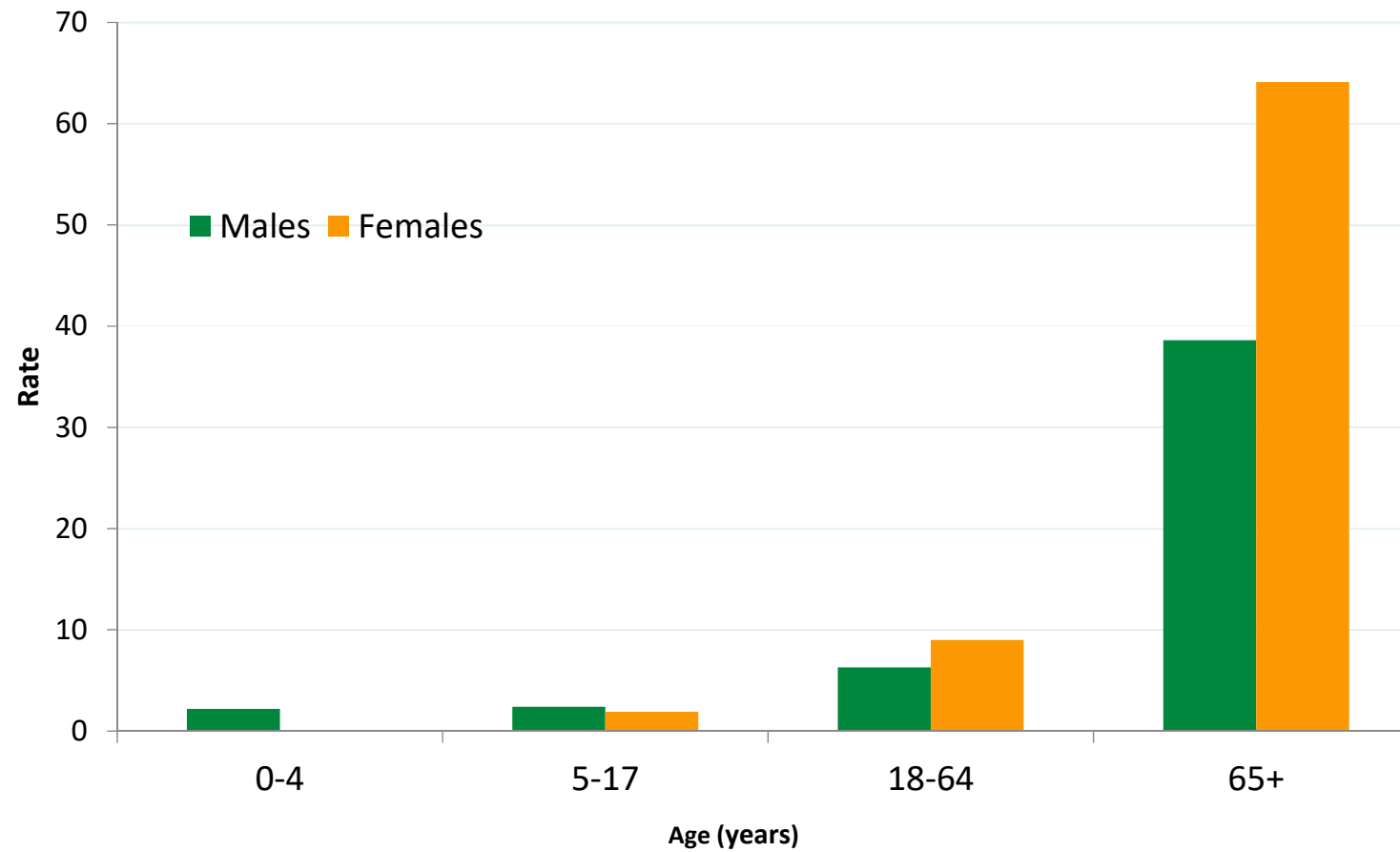
## Age-Adjusted Asthma Deaths per 1,000,000 California Residents by Race/Ethnicity, 2003-2009 Aggregated



Data Source: CDPH Office of Health Information Research

Page 161 of full report

## Age-Adjusted Asthma Deaths per 1,000,000 California Residents by Sex and Age, 2005-2009 Aggregated

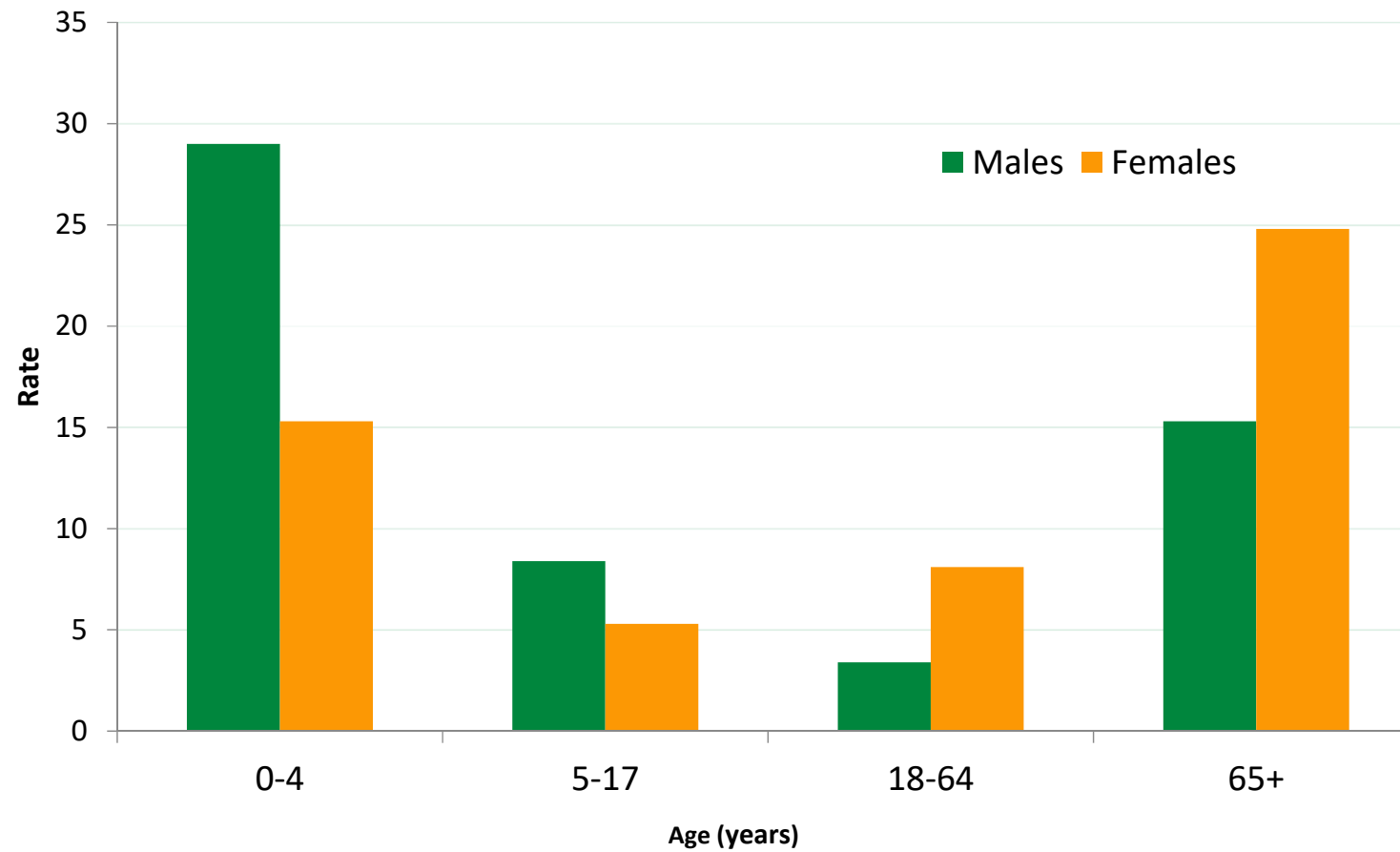


Data Source: CDPH Office of Health Information Research

Page 163 of full report



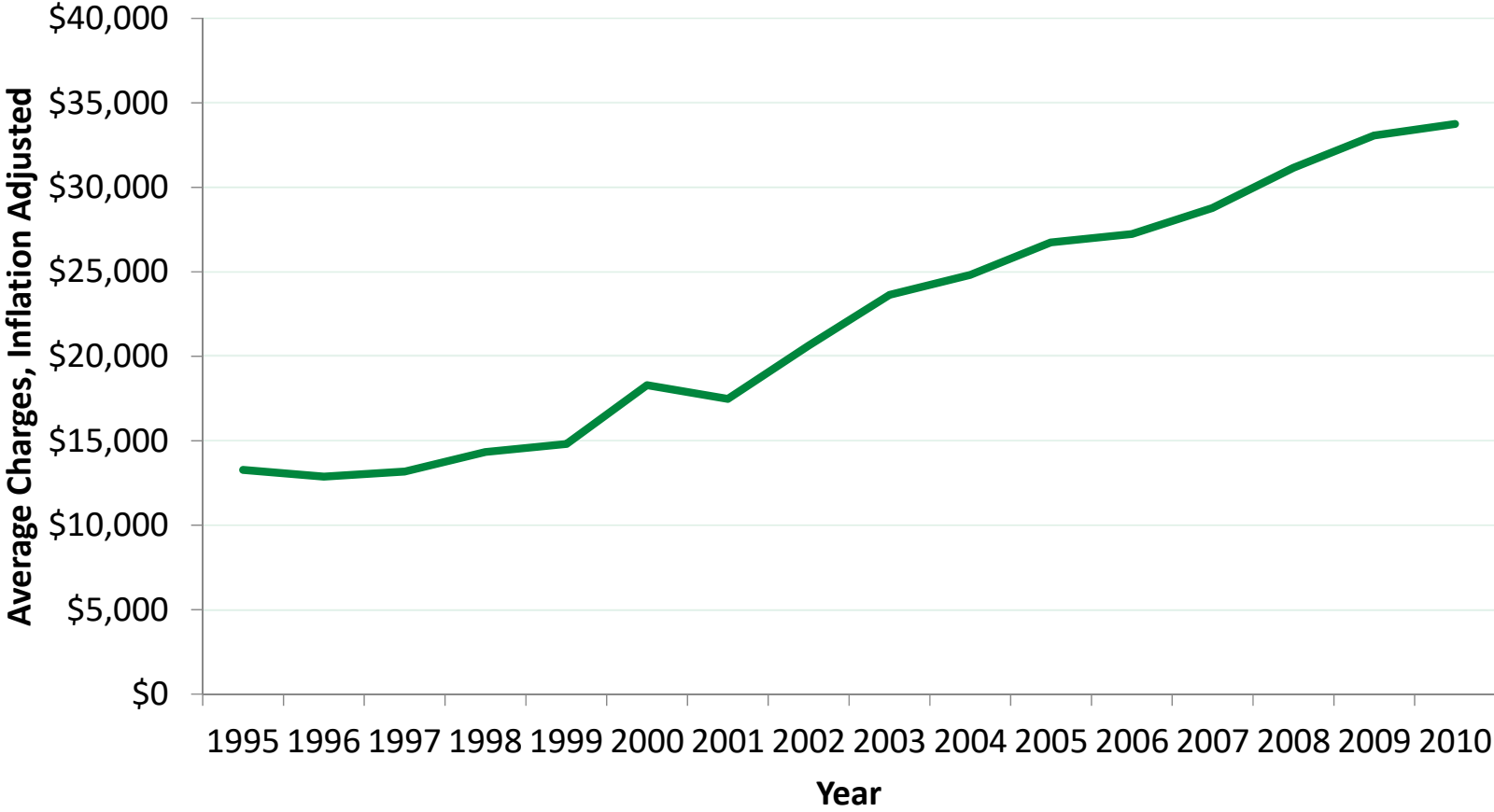
## Age-Adjusted Asthma Hospitalizations per 10,000 California Residents by Sex and Age, 2010



Data Source: OSHPD

Page 133 of full report

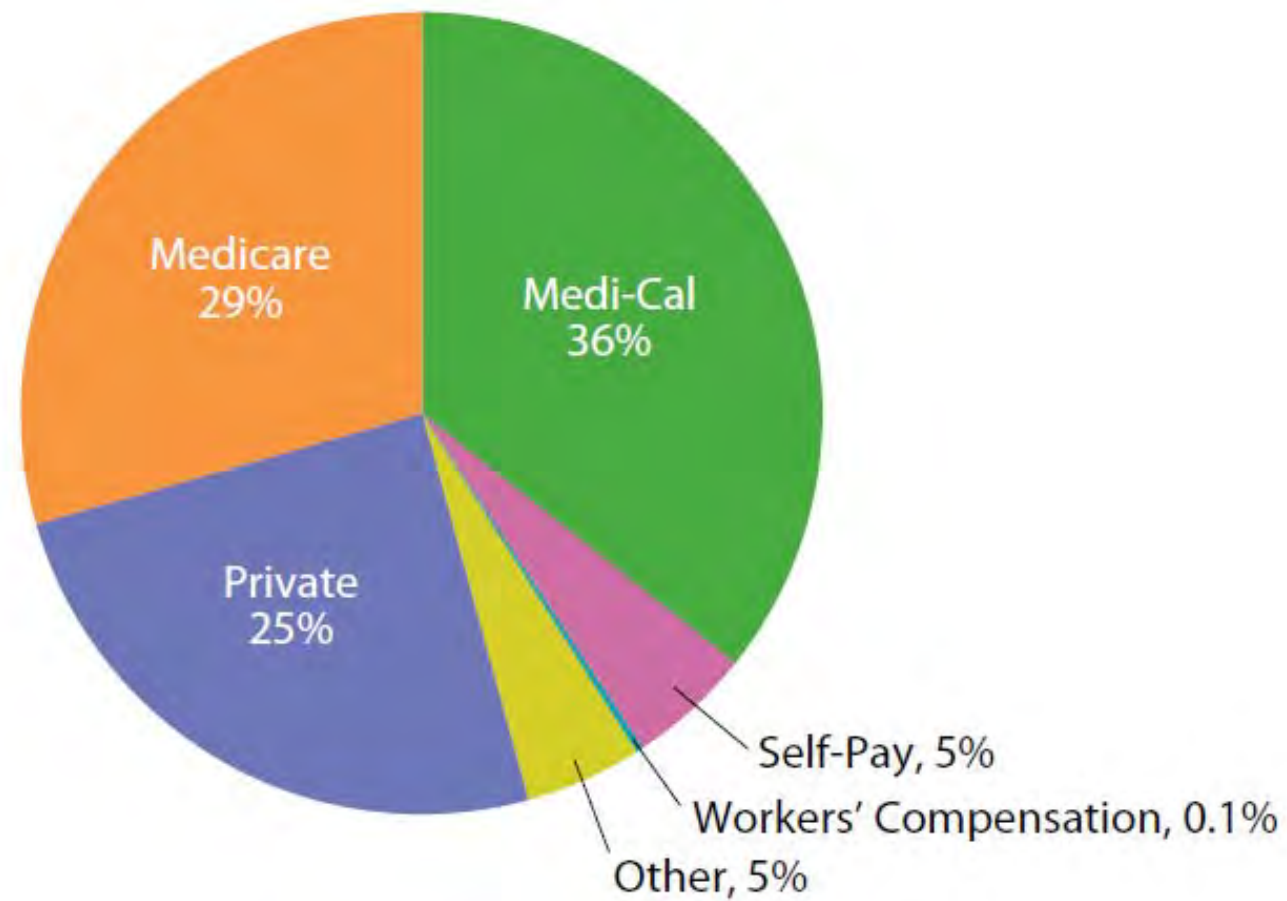
# Average Charge per Asthma Hospitalization, California 1995-2010



Data Source: OSHPD

Page 137 of full report

## Expected Source of Payment for Asthma Hospitalizations, California 2010



**CODE**

**ENFORCEMENT**

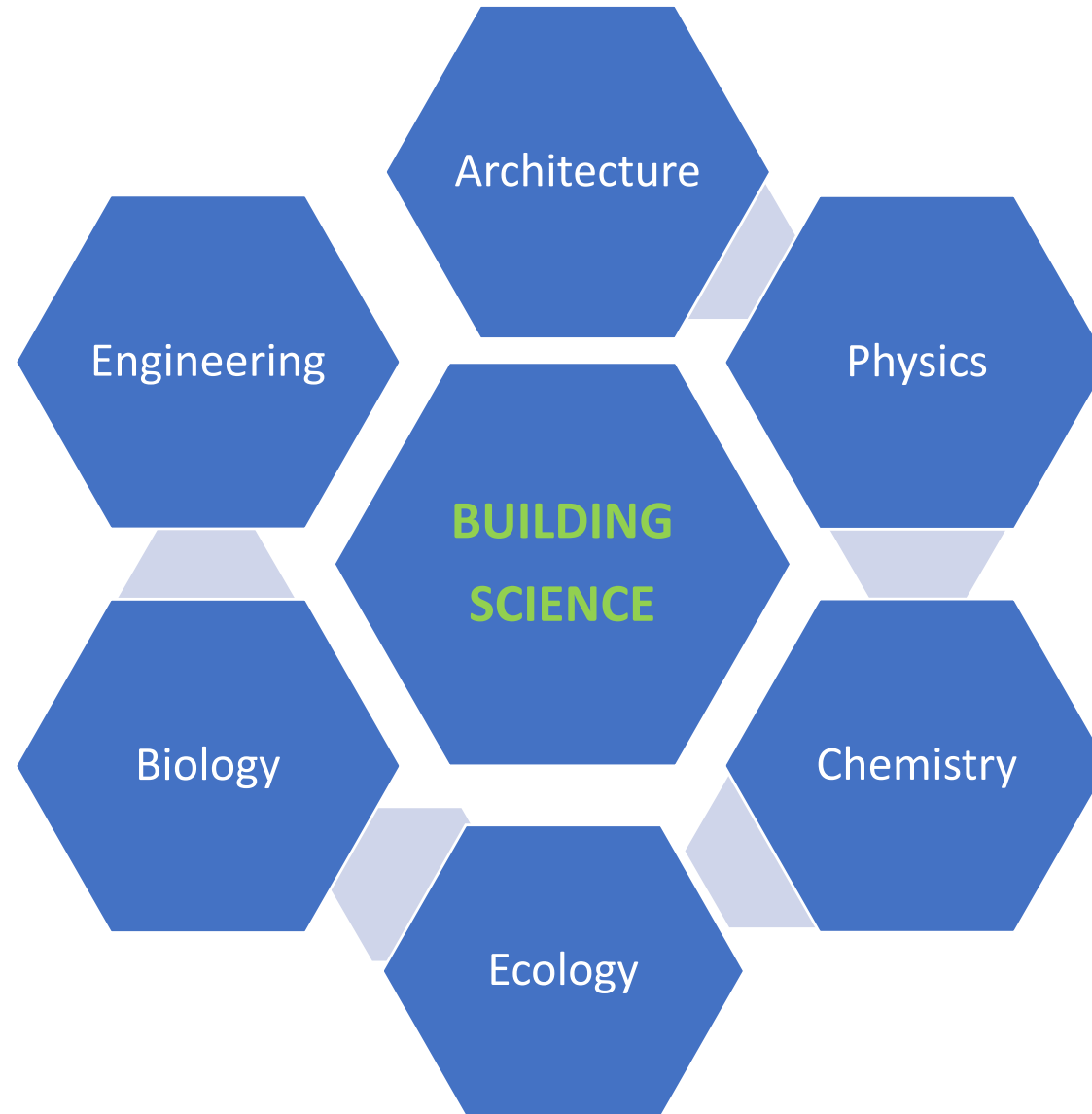
Water Leaks  
Flooding  
Old House Syndrome  
Improper Ventilation  
Odd Odors  
Attics, Basements  
Hidden mold areas

# Mold Sickness

(Chronic Inflammatory Response Syndrome)

Mycotoxins  
Mycobacterium  
Inflammagens  
Volatile Organic Compounds

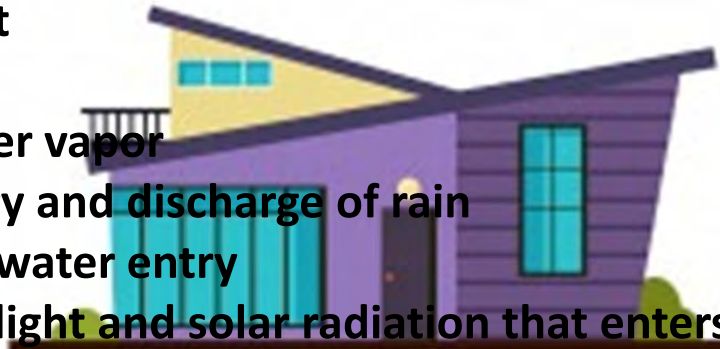
# WHAT IS BUILDING SCIENCE?





## **Buildings are environmental separators\***

- Separates the outside from the inside
- Controls the flow of heat
- Controls airflow
- Controls the flow of water vapor
- Controls against the entry and discharge of rain
- Controls against ground water entry
- Controls the quantity of light and solar radiation that enters.



Source: City of Fremont, Leonard Powell, J.D. author





## Mold

[Indoor Air Quality Home Page](#)

[Mold Home Page](#)

[Flood Cleanup](#)

[Learn about Mold](#)

[Ten Things You Should Know About Mold](#)

[Mold and Health](#)

[Mold Cleanup](#)

[Mold Testing and Sampling](#)

[Frequent Questions about Mold](#)

[Mold Publications](#)

[Schools and Commercial Buildings](#)

[Resources for Public Health Professionals](#)

**[Interactive Mold House](#)**

[Related Topics](#)

<https://www.epa.gov/mold/interactive-mold-house-tour>



# What is Mold?



Mold is a Fungi

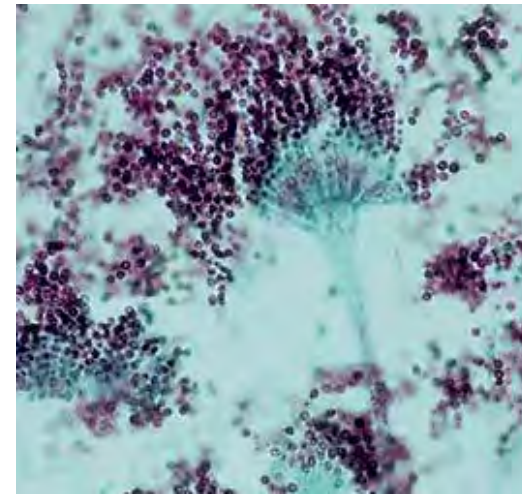
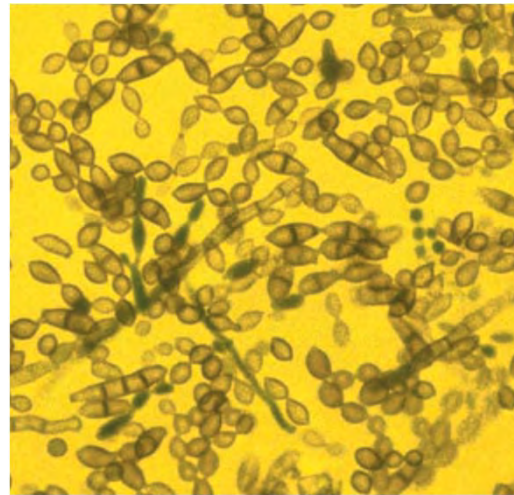
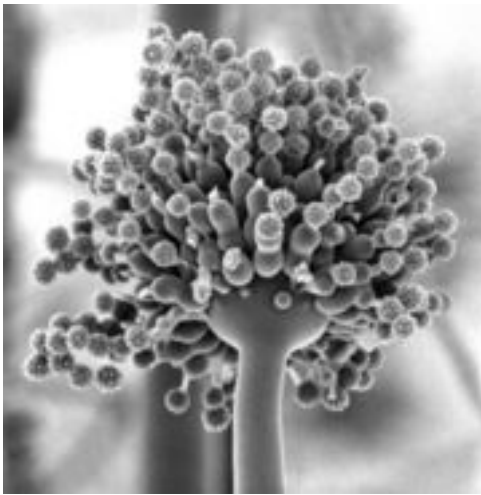


Fungi live by decomposing and absorbing the organic material in which they grow



# What is Mold?

Mold spores: The reproductive cells of fungi  
Only visible in groups



A breeze, cleaning mold, or doing mold remediation can send billions of spores into the air.



# What Causes Mold?

## Mold Growth Conditions

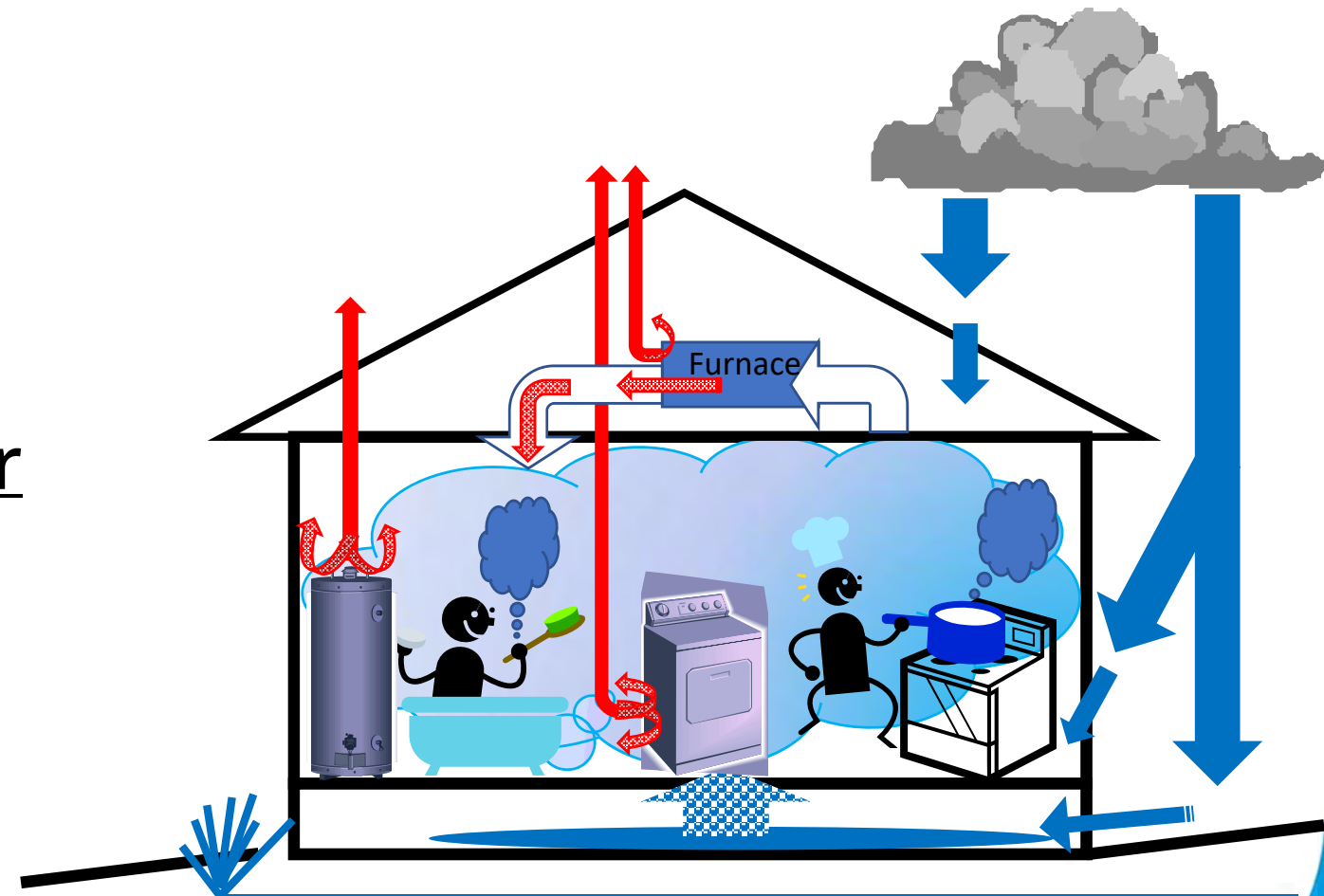
- Mold needs a moisture source to grow
- Any organic material can serve as a food source.
- Housekeeping conditions can be significant contributing factor to mold growth.
- If the water source is eliminated, spores go dormant, but mold will grow again in the right conditions (moisture)

## Bulk Moisture: Water - Liquid

- Building Shell Leaks
- Window and Door Defects
- Plumbing Leaks
- Drainage Problems

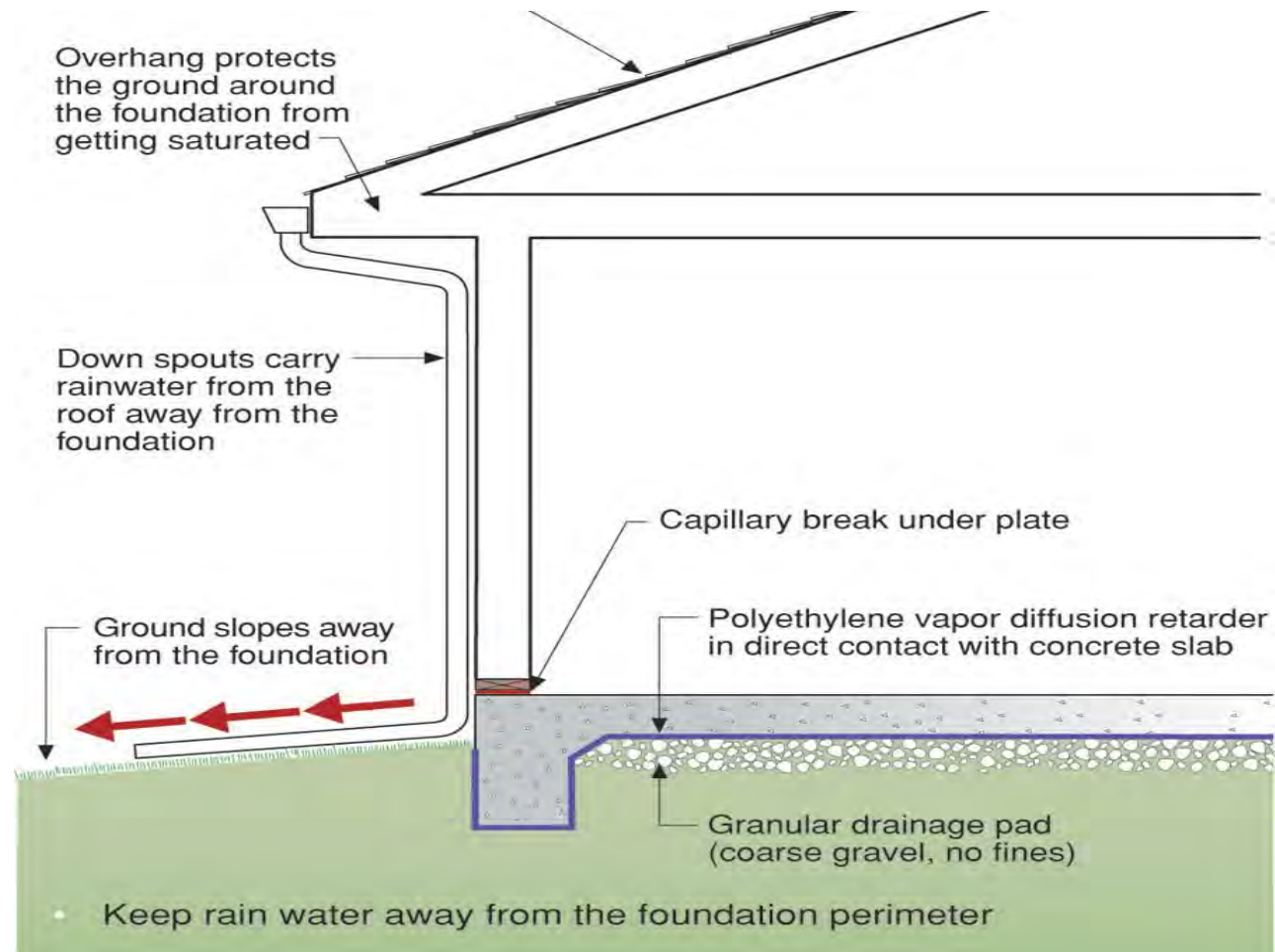
## Other Sources - Humidity / Vapor

- Appliance Malfunction
- Crawlspace
- Cooking
- Bathing
- People
- Plants



# Sources of Moisture

## Concrete Foundation Can wick moisture like a sponge...



## Unvented Combustion Appliances

- **Cooking Or Heating Appliances**
- **Unvented Heaters**



## Lack of air movement by mechanical ventilation systems

- Smoke Test
- Paper Test



# Sources of Moisture

## Improper Venting

- **Water Heater**



- **Dryer Vent**



## Condensation at Common Cooler Areas

- **Windows & Framing Members**



- **Missing Insulation**







# Sources of Moisture

## Condensation and Relative Humidity

**Water that collects as droplets on a cold surface when humid air is in contact with it.**





# Identifying Mold

## Laboratory Testing

- Laboratory testing is **not** recommended, but can be done to help identify the mold.
- The type of mold does not matter in most cases.
- All mold can be potential allergens.



# Identifying Mold

Know it when you see it

- Mold can be identified visually, and comes in several colors not just black.
- Look for spots in areas of high humidity or water damage.
- Musty odors are indicative of actively growing microbial life



## Hidden Mold





# Identifying Mold





# Identifying Mold

Sometime mold can look like mushrooms or thick mats of rot.

Wood rot is a type of mold.



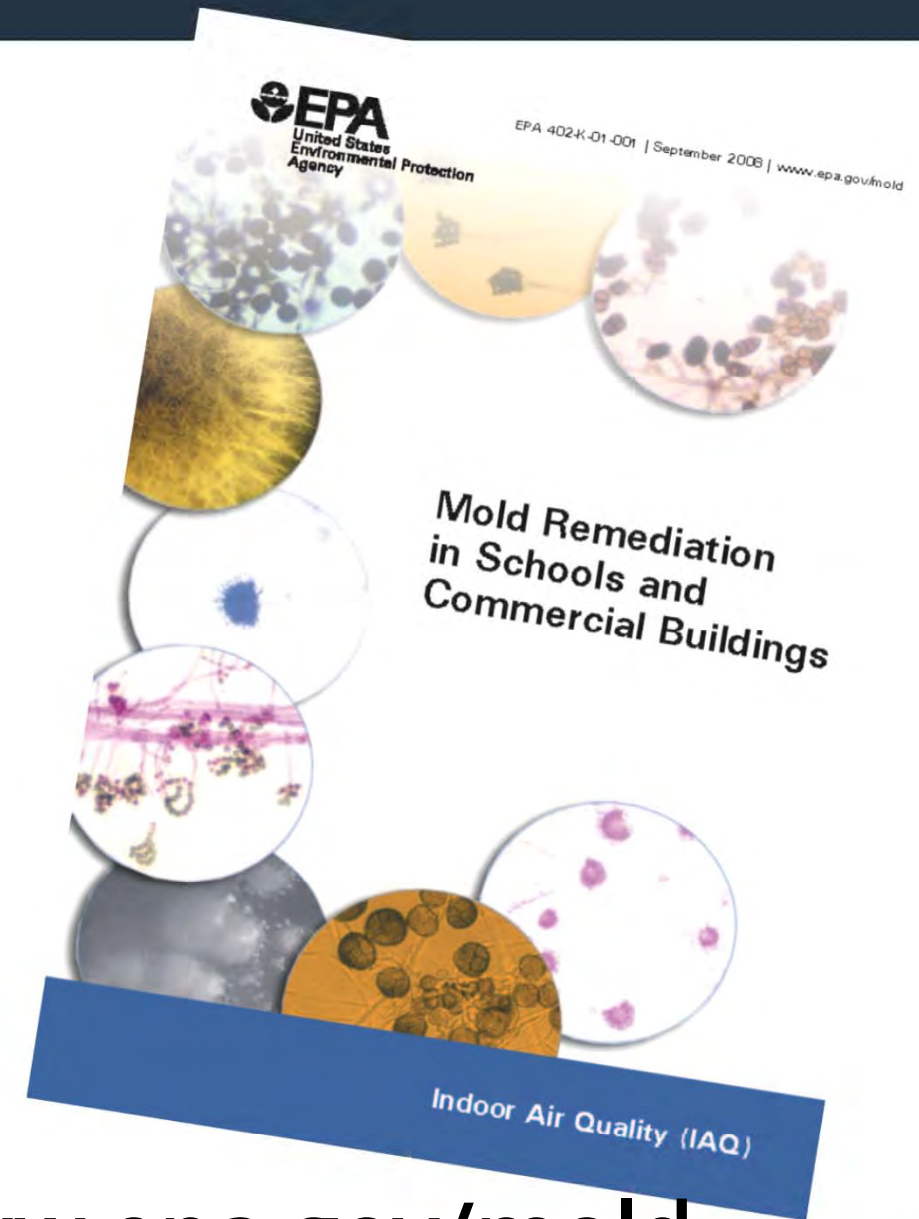




# Remediation

## When to hire professionals

- Need to Contain Spores?
- Health concerns / Sewage?
- >10 Sq. Ft.



[www.epa.gov/mold](http://www.epa.gov/mold)

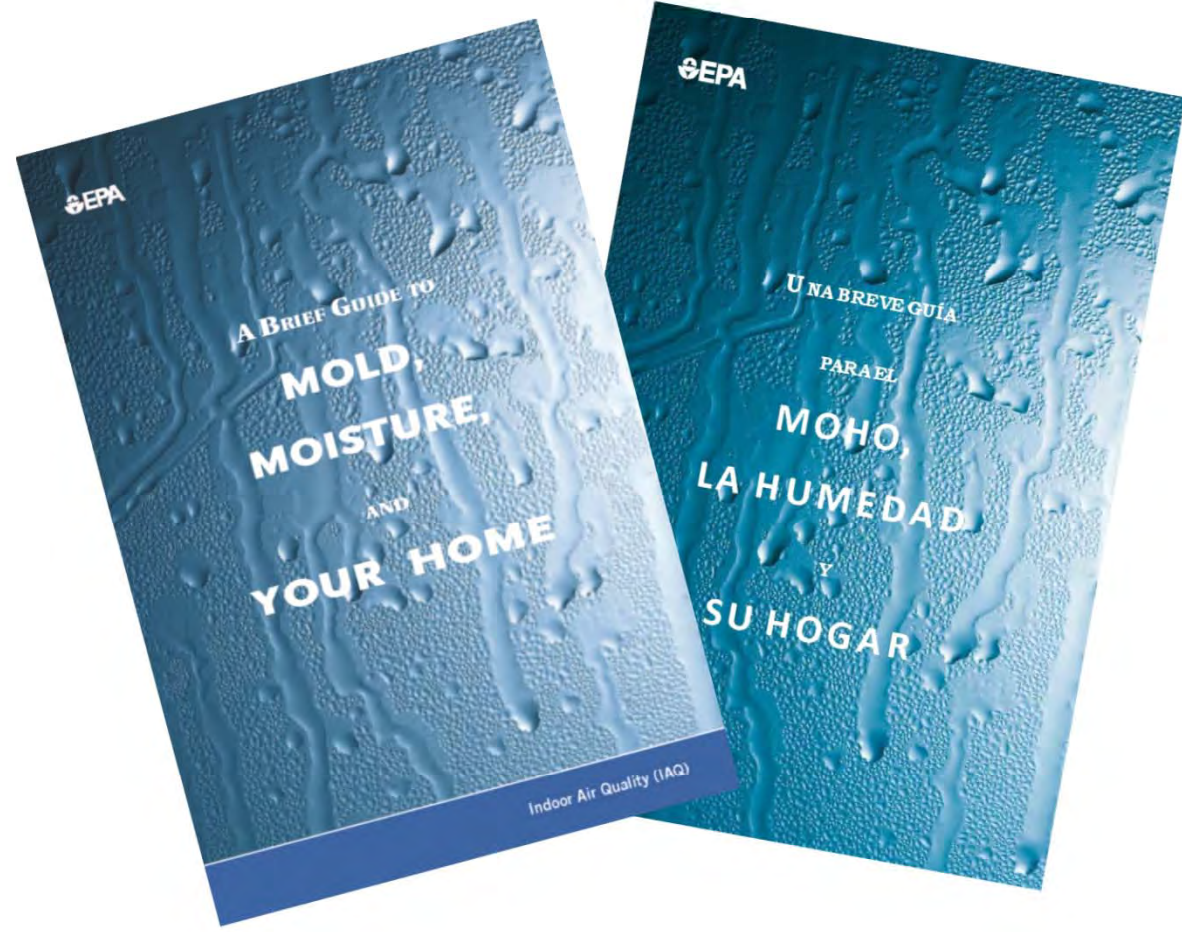
<ftp://ftp.sannet.gov/OUT/ESD/LSHHP/CACEO.zip>

[sandiego.gov](http://sandiego.gov)





# Remediation



[www.cdph.ca.gov/programs/IAQ](http://www.cdph.ca.gov/programs/IAQ)

[www.epa.gov/mold](http://www.epa.gov/mold)

<ftp://ftp.sannet.gov/OUT/ESD/LSHHP/CACEO.zip>

## Personal Protection

- N95 Respirators
- Closed goggles
- Rubber gloves
- Coveralls



## Porous Material

- Discard porous contaminated material
- Remove affected wall material and deteriorated components as needed
- Bag / wrap components before they leave the work area.



## Non-Porous Material

- Clean contaminated material with mild detergent and hot water
- Do not use high pressure sprayers
- Speed dry completely
- Dry before sealing walls or painting





**SB: 655 – Added to CCC**

**§1941.7. Presence of mold**

**“(b) A landlord may enter a dwelling unit to repair a dilapidation relating to the presence of mold**



## California Civil Code

**1954: Provisions by which a landlord may enter a dwelling unit, which includes making “necessary or agreed repairs”**

**1941.1(a): Dwellings are deemed untenable if as described in Section 17920.3 or 17920.10 of the Health and Safety Code.**



## **SB: 655 – Added to CCC**

### **§1941.7. Presence of mold**

**“(a) An obligation shall not arise under Section 1941 or 1942 to repair a dilapidation relating to the presence of mold ...until the lessor has notice of the dilapidation or if the tenant is in violation of Section 1941.2.”**

CACEO Recommends

## INSPECTION TOOLS

- Hygrometer
- Moisture meter
- Infrared thermometers
- Thermal imaging
- Digital cameras

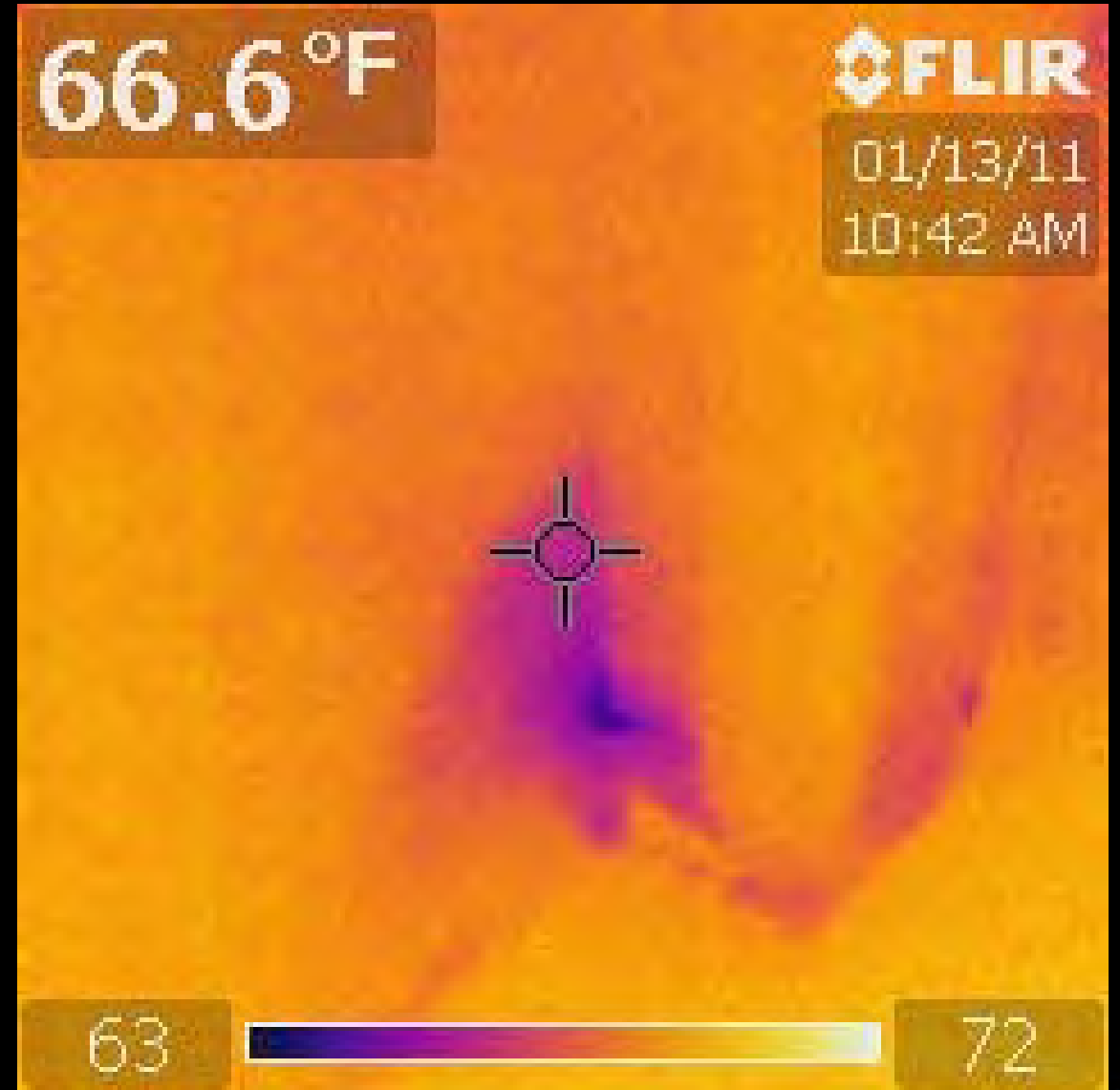
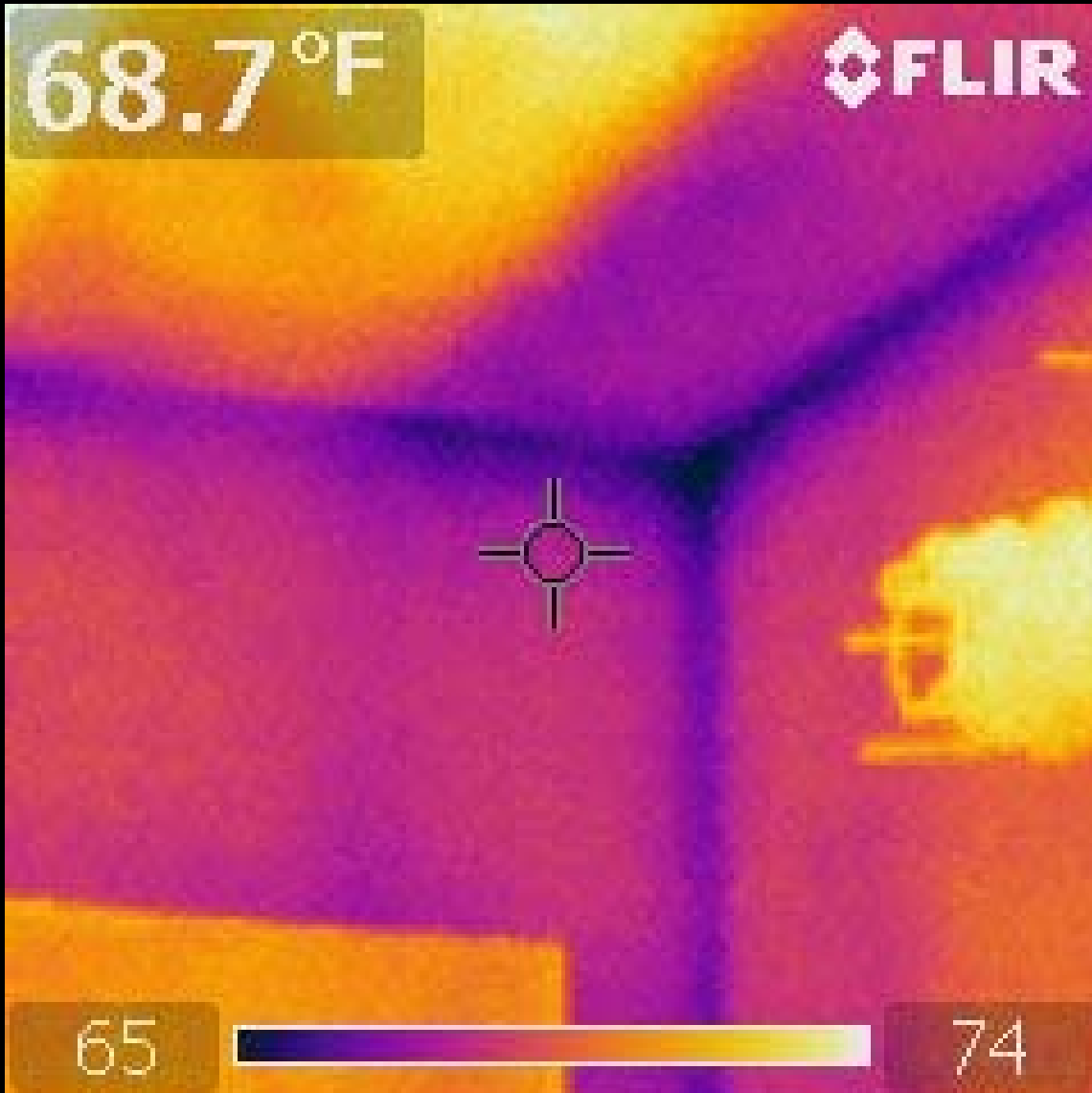


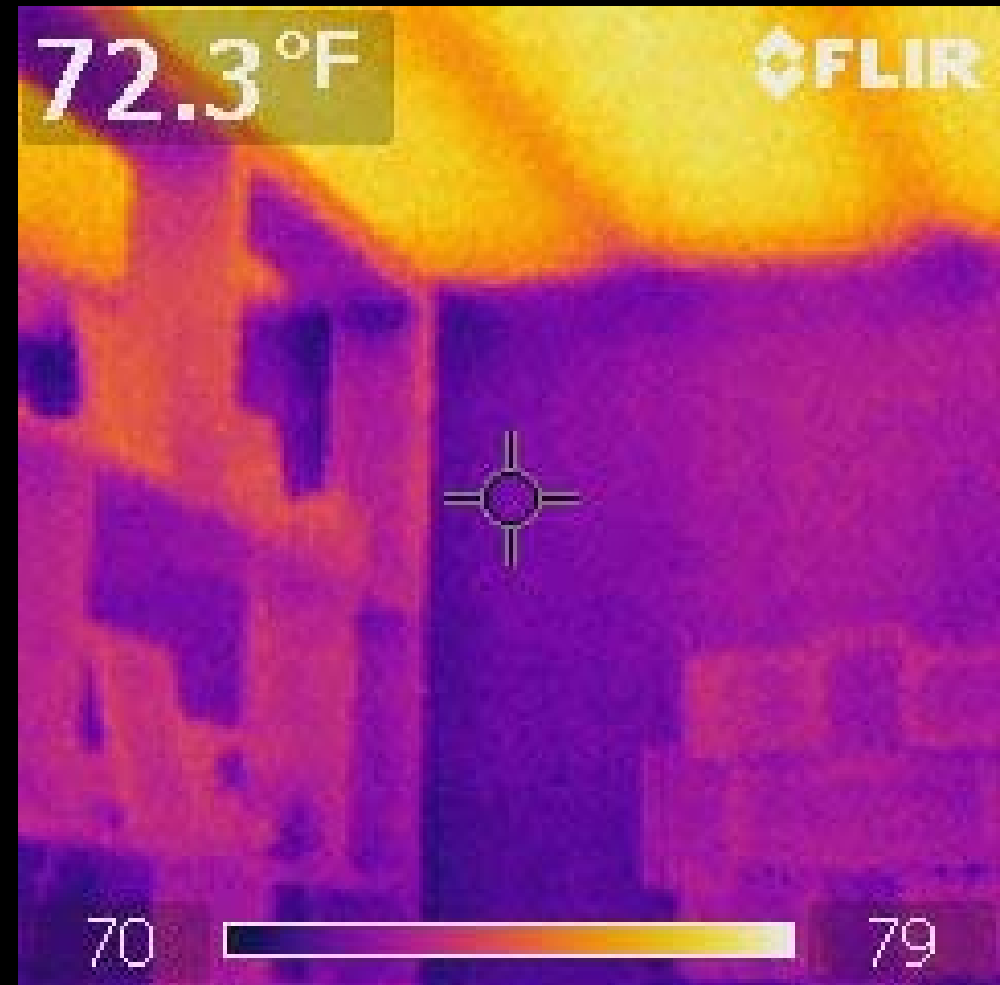
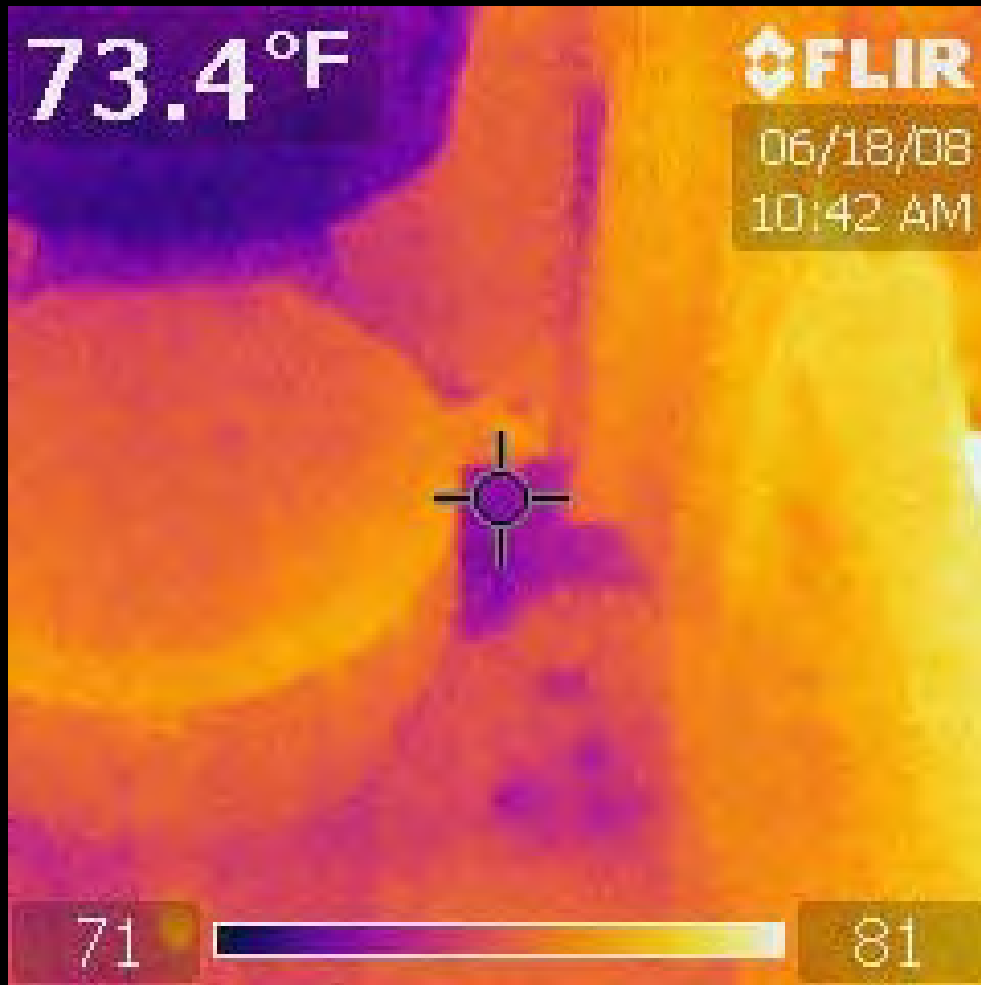


## Testing Equipment

- A Moisture Meter will determine moisture levels of building materials.
- A Hygrometer will determine if you have elevated humidity levels.
- Many meters do both functions.







# CACEO Recommends

## REPORTING and DOCUMENTATION

**CITY OF FICTITIOUS**  
Community Development Dept.  
Building & Safety Division  
11111 Agency Street  
Fictitious, CA 90000  
[www.fictitious.gov](http://www.fictitious.gov)  
(555) 555-5555

ADDRESS:	123 Main St
APN#:	123 4567 890
CASE-NUMBER:	COD2016-00001

# NOTICE AND ORDER TO ABATE NUISANCE

January 1, 2016


Name  
Address  
City, CA 91111-1111

CC: → Occupants  
Address  
City, CA 91111-1111

CC: → PRLAP Inc., Trustee for Bank of America  
Jacksonville Post Closing  
Recorded: May xx, 200x, Instrument No. 200x-1xxxxx  
9xxx Southside Blvd., Bldg. 7xx, File Receipt Dept.  
Jacksonville, FL 3xxxx

Re: Address, City, State, Zip.

Dear Property Owner:



# CDPH CRACKDOWN!

cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/Code-Enforcement.aspx

California Department of Public Health

## CALIFORNIA HOUSING CODE ENFORCEMENT

This database below lists local agencies to contact for enforcement of the California Housing Code in rental properties with potentially substandard conditions.

- Each county is listed, and under the county, any cities for which we have specific information.
- Search first for your city. If your city is not listed or you are in an unincorporated area, search for your county.
- If no information is listed for your city or county, look on your city or county webpage for housing code enforcement within local departments, such as the Environmental Health, Community Development, or Building departments.
- This database is an ongoing project. If you find incorrect information listed here or find additional information that should be included, please [email us](#) to let us know.

The following localities in California do not inspect rental housing to enforce for mold as a substandard housing condition, although they are required to do so under State Housing Law. We are currently working on getting renters in these localities the enforcement to which they are entitled.

- City of San Valley, in Ventura County
- City of Pismo, in Contra Costa County
- City of Oakland, in Alameda County
- Unincorporated Alameda County
- Unincorporated Butte County

(as of August 19, 2019)

Search by County or City:

COUNTY	CITY	DEPARTMENT & LINK	PHONE NUMBER	EMAIL	NOTES
ALAMEDA					At this time, the IAQ section is unable to identify a way for tenants in unincorporated areas of Alameda County to get an investigation related to substandard housing complaints. <a href="#">The Alameda County Public Works Agency Building Inspection</a> , which apparently has the authority to enforce the housing code, is not responding to mold complaints. The <a href="#">Housing &amp; Inspections program website</a> indicates that the Dept. of Environmental Health investigates housing complaints in Unincorporated areas of Alameda County, but we were told they only respond to complaints around cottage food operations.
ALAMEDA	FREMONT	Fremont Code Enforcement	(510) 494-4450		Code Enforcement - Unsafe or Unsanitary Homes
ALAMEDA	OAKLAND	Oakland Code Enforcement	(510) 235-3380		We have been notified that the city of Oakland does not respond to mold complaints.
ALAMEDA	FREMONT	Piedmont Building Division	(510) 420-3050	rekj@piedmont.ca.gov	To check about housing code enforcement, call Robert Aliyema, building official at (510) 420-3062
ALAMEDA	ALAMEDA	Alameda Code Enforcement	(510) 747-8818		Look for the link to the Code Enforcement Complaint Form. For additional housing resource, see the <a href="#">Alameda District Program</a>
ALAMEDA	ALBANY	Albany Code Enforcement	(510) 828-8760	com-de@albanys.org	
ALAMEDA	BERKELEY	Berkeley Housing Code Enforcement	(510) 964-5444	HC@cityofberkeley.info	
ALAMEDA	DUBLIN	Dublin Code Enforcement	(925) 835-8620	Request Traci	Building and Safety Code Enforcement enforces provisions of Uniform Housing Code
ALAMEDA	EMERYVILLE	Emeryville Code		Building_Division@ci.emeryville.ca.us	

# CACEO Recommends

# REPORTING and DOCUMENTATION

Full  
 Complaint  
 QC

New  
 Continuing

NIOSH Dampness and Mold Assessment Form for Schools Use one form per room.

---

**Date:** \_\_\_\_\_ **Observer:** \_\_\_\_\_ **District:** \_\_\_\_\_ **School:** \_\_\_\_\_

**School Type:** \_\_\_\_\_ **Building Type:** \_\_\_\_\_ **Wing:** \_\_\_\_\_ **Floor:** \_\_\_\_\_

**Room Type:** Fill in the bubble for the type of room that you are assessing.

Auditorium     Boiler Room     Conference Room     Hallway     Lounge     Pipe Chase/Shaft  
 Bathroom (Male)     Cafeteria     Custodial Closet     Kitchen     Mechanical Room     Stainwell  
 Bathroom (Female)     Classroom     Entrance Area     Library     Music Room     Storage/Closet Area  
 Bathroom (Unisex)     Computer Room     Gym     Locker Room     Office     Other \_\_\_\_\_

**Room Number:** \_\_\_\_\_

**If there is no room number, enter the number or name (e.g., Library) of the nearest room using the following choices:**

Across from \_\_\_\_\_ Next to \_\_\_\_\_ Inside of \_\_\_\_\_ Near \_\_\_\_\_

**MOLD ODOR:** Be sure to smell for mold odor when you first walk into the room/area. Fill in the appropriate bubble/s.

NONE     MILD     MODERATE     STRONG    Source of MOLD ODOR? \_\_\_\_\_     Source Unknown

	Check (✓) if component is in the room/area.	Check (✓) if nothing found.	DAMAGE or STAINS				VISIBLE MOLD				WET or DAMP				Row Totals	Notes
			0	1	2	3	0	1	2	3	0	1	2	3		
<input checked="" type="checkbox"/>	Ceiling		0	1	2	3	0	1	2	3	0	1	2	3		
<input checked="" type="checkbox"/>	Walls		0	1	2	3	0	1	2	3	0	1	2	3		
<input checked="" type="checkbox"/>	Floor		0	1	2	3	0	1	2	3	0	1	2	3		
	Windows		0	1	2	3	0	1	2	3	0	1	2	3		
	Furnishings		0	1	2	3	0	1	2	3	0	1	2	3		
	HVAC systems		0	1	2	3	0	1	2	3	0	1	2	3		
	Supplies & Materials		0	1	2	3	0	1	2	3	0	1	2	3		
	Pipes		0	1	2	3	0	1	2	3	0	1	2	3		
	Other _____		0	1	2	3	0	1	2	3	0	1	2	3		
	<b>Column Totals</b>															
	<b>Column Averages</b>															

Scores: 0=None 1=The size of this form or smaller, 2=Between the size of this form and the size of a standard interior door, 3=Equal to or larger than the size of an interior door.

Source: Copy obtained from City of Fremont, Leonard Powell, J.D. author and CACEO member



### Fremont Community Preservation Mold Assessment Form

Date: \_\_\_\_\_ Inspector: \_\_\_\_\_ Address: \_\_\_\_\_

Building Type: SFD  Multi-Family  Condo  Floor: \_\_\_\_\_

Occupant Name: \_\_\_\_\_ Occupant Phone Number: \_\_\_\_\_ Email: \_\_\_\_\_

**Room Type:** Fill in the bubble for the type of room you are assessing.

- Bathroom
- Entrance Area
- Office
- Family/Living Room
- Hallway
- Kitchen
- Stairwell
- Dining Area
- Storage/Closet Area
- Garage
- Bedroom
- Other: \_\_\_\_\_

Was the "Mold & Moisture in my Home" Document Provided to Occupant? Yes  No

MOLD ODOR: Be sure to smell for mold odor when you first walk into the room/area. Fill in the appropriate bubble/s.

NONE     MILD     MODERATE     STRONG    Source of MOLD ODOR? \_\_\_\_\_  Source Unknown

Room/Area	Mold?	Damage/Stains	Visible Mold	Wet or Damp	Notes
Ceiling		① ① ② ③	① ① ② ③	① ① ② ③	
Walls		① ① ② ③	① ① ② ③	① ① ② ③	
Floor		① ① ② ③	① ① ② ③	① ① ② ③	
Windows		① ① ② ③	① ① ② ③	① ① ② ③	
Furnishings		① ① ② ③	① ① ② ③	① ① ② ③	
Other _____		① ① ② ③	① ① ② ③	① ① ② ③	

Scores: ①=None/De Minimis    ①=Less than 10 square feet    ②=Between 10 and 100 square feet    ③=Greater than 100 square feet

**These walls don't  
just look good.**

**They're Yummy Too!**

**New Flavored Lead-Based  
Paint and Varnish**

**Great Flavors!**

**Pistachio (Shown)**

**Cotton Candy**

**Lemon**

**Marshmallow**

**Dutch Boy**  
PAINTS

# LEAD EXPOSURE

- Swallowing or breathing lead dust
- Small amounts can be toxic
- Often no symptoms
- 8,464 children <21 in California with BLL's of 4.5 or greater in 2015

**No known safe  
level of lead  
in the body**





# Lead's Effects on Babies and Young Children

- Can damage the brain and the nervous system
- Can cause behavior and learning problems
- Can reduce muscle and bone growth
- Can damage hearing
- Can cause death



**Even children who seem healthy may have high levels of lead**

Pb 2

# LEAD POISONING and the developing brain



hippocampus

1 Lead can be ingested from contaminated water, lead based paint, or other lead materials.

2 Lead enters the blood stream and binds to red blood cells

6 Cell death results from decreased levels of brain-derived neurotrophic factor

3 Lead can cross the underdeveloped blood brain barrier of children to affect hippocampal neurons crucial for learning and memory

5 Calcium levels decrease and nitric oxide synthase levels increase

4 Lead binds to the NMDA receptor, blocking glutamate

astrocyte

Extrasynaptic NMDA Receptor

Synaptic NMDA Receptor

glutamate

Debra D. Bell 17

ASSOCIATION of

SALON

References:  
Lambert, G. & Krasner, L. (2014). Lead: A neurotoxicant that affects the developing brain. *Journal of Neurotoxicology*, 35(1), 1-14.  
Lambert, G., & Krasner, L. (2014). Lead: A neurotoxicant that affects the developing brain. *Journal of Neurotoxicology*, 35(1), 1-14.  
Lambert, G., & Krasner, L. (2014). Lead: A neurotoxicant that affects the developing brain. *Journal of Neurotoxicology*, 35(1), 1-14.



Lead poisoning  
or swallowing lead  
a mother to her unborn

**Too much lead in your body can:**

- Put you at risk of miscarriage
- Cause your baby to be born too early or too small
- Hurt your baby's brain, kidneys, and nervous system
- Cause your child to have learning or behavior problems

**Lead can be found in:**

- Paint and dust in older homes, especially dust from renovation or repairs
- Candy, make up, glazed pots, and medicine made in other countries
- Work like...

# IMPACT ON SOCIETY

- Even small amounts of lead in the blood can reduce math, reading, reasoning, and short-term memory abilities.
- An estimated 20-30% of urban special ed. students suffer from lead poisoning.
- A lead poisoned child is:
  - Six times more likely to suffer from a reading disability
  - Seven times more likely to drop out of high school



## 2 main routes of exposure to lead

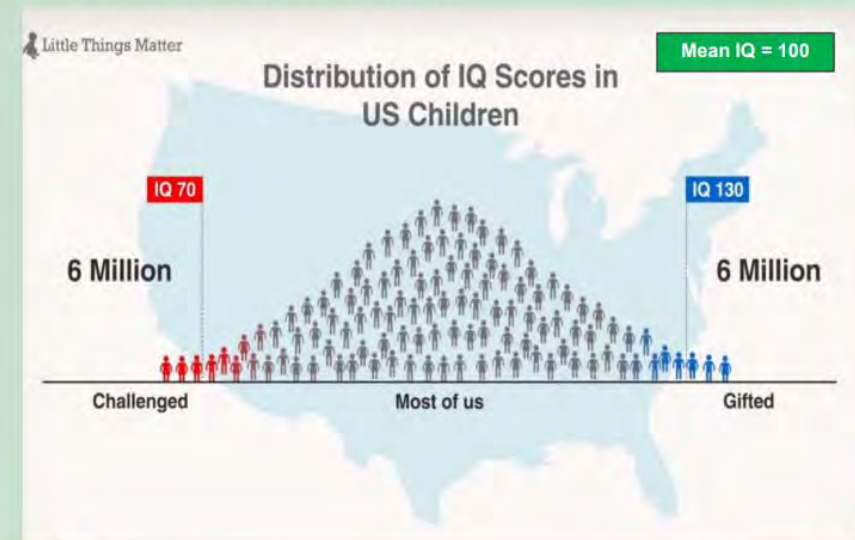
- **Inhalation** of fine particles and fumes e.g. from sanding or burning lead paint
- **Ingestion** of dust and paint chips
  - Children with pica are at particularly high risk
  - Picture is a radiograph of a child with lead poisoning from eating lead paint, showing paint chips dispersed throughout the gut



Figure 2 – A large quantity of lead paint chips can be seen in this radiograph of the abdomen and pelvis of a 2-year-old boy with lead poisoning.

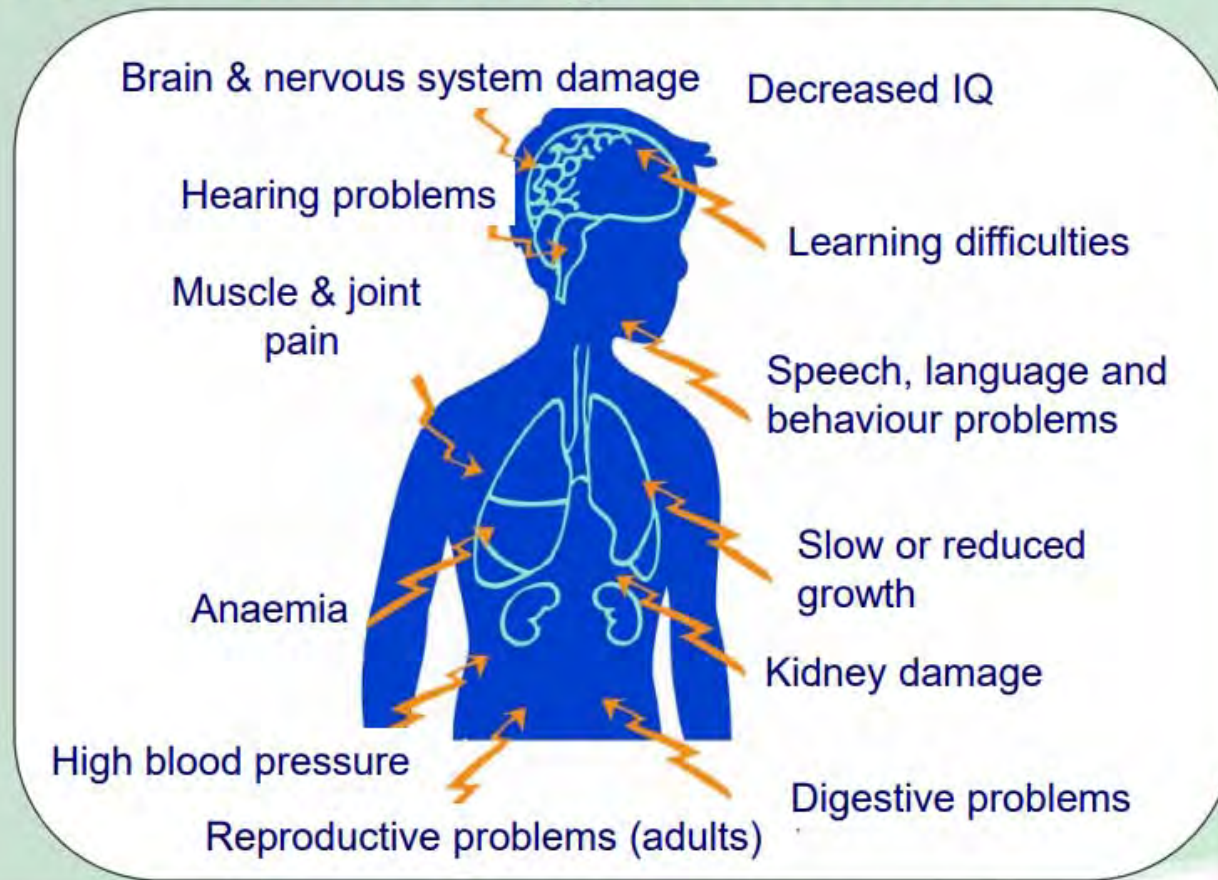
Reference B.i.1

## Small IQ reduction has significant societal impact (1)



Reference B.i.4

# Lead is a multi-system toxicant



World Health Organization



LEAD PAINT ALLIANCE

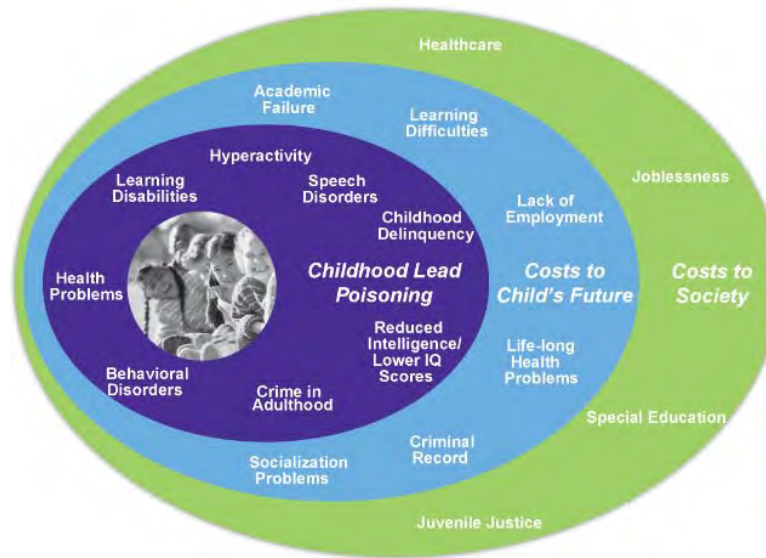
## The Prevention Paradox

The majority of IQ points lost due to lead exposure occur in children who have low to moderate blood lead levels.

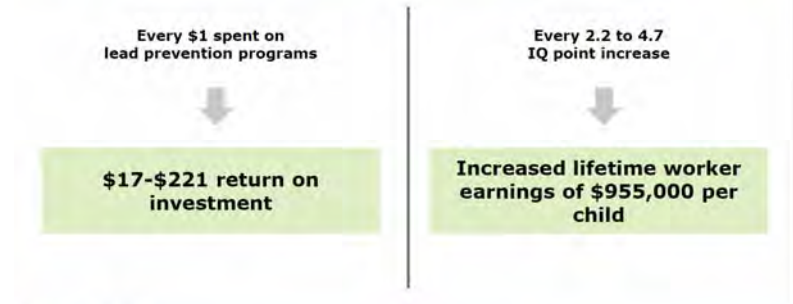
Estimated Loss of IQ in US Children at Different Intervals of Blood Lead

Current Reference Value - 5 µg/dl	No. of Children in Distribution	IQ Loss Average	Estimated IQ Points Lost
5.7 Million	0.1	3.1 Million	
6.4 Million	1.6	9.3 Million	
12.7 Million	0.9	5.7 Million	
	0.3	4.7 Million	

No. of Children in Distribution × IQ Loss Average = Estimated IQ Points Lost



## The Business Case for Lead Poisoning Prevention



Source: HUD, Gould  
www.gghh.org

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# Regulatory Background

## Lead Hazard Enforcement

### 1) Substandard Housing

- Pre 1978 with deteriorated paint contaminated dust or soil



### 2) Unsafe Work Practices

- Pre 1978 without containment







# Regulatory Background

## Substandard Housing

**HSC 17920.10:** Deteriorated LBP ...as defined in Title 17 – “and that are likely to endanger the health ... as a result of their proximity to the public or the occupants.”

**Department of Housing and Community Development information bulletin 2003-05:** The focus is general “proximity” ... not whether there is “enough lead” in the paint or dust to endanger the residents or public.

**Title 17, §35022. “Deteriorated Lead-Based Paint”:** “Lead-based paint or presumed lead-based paint that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component.

**Title 17, §35037. “Lead Hazard”:** Deteriorated LBP, contaminated dust or soil, disturbing LBP or presumed LBP without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.



# Regulatory Background

## Substandard Housing

**HSC 17920.10** Deteriorated LBP ...as defined in Title 17

***January 1999***

**§ 35022. Deteriorated Lead-Based Paint:** “means lead-based paint or surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component.”

***April 2008***

**§35022. Deteriorated Lead-Based Paint:** “means lead-based paint **or presumed lead-based paint** that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separating from a component.

\*Chemical test kits are not sufficient to say paint is not lead-based paint



# Regulatory Background

## Substandard Housing

### Department of Health Services SB 460 FAQs

*Keep in mind that SB 460 contains two definitions for "lead hazard."*

#### **17920.10(c) "Deteriorated lead-based paint" & "Disturbing lead-based paint without containment"**

..Shall be considered lead hazards ... only if the aggregate affected area is equal to or in excess of one of the following:

- 1) 2 square feet in any one interior room or space.
- 2) 20 square feet on exterior surfaces.
- 3) 10% of the surface area on the interior or exterior type of component with a small surface area. Examples include windowsills, baseboards, and trim.

\*Any amounts if related to child with elevated blood lead level



# Regulatory Background

## Substandard Housing – SAFE Work Practices

**Abatement:** Measures to eliminate lead hazards

≥ 20 years: **Permanent Abatement**

- Remove: Strip paint to substrate
- Replace: Component Replacement
- Enclose: Mechanical Enclosure System
- Encapsulate: Adhesive Enclosure

**Required**

- 1) Certified Abatement Contractor
- 2) Clearance: Certified Inspector

< 20 years: **AKA Interim Controls**

- Stabilize: Prep and paint using lead safe work practices (LSWP)
- Ongoing Maintenance by Owner

**Required**

- 1) **CA:** LSWP per HUD Guidelines
- 2) **CA:** Manner that ensures no dust contamination upon completion
- 3) **EPA:** Renovate Repair and Painting Training / Certification

\*Consider item 3 equivalent to items 1 & 2



# Regulatory Background

## Safe Work Practices: Renovations & Abatement

- Dust & Debris 100% Containment
  - Wet Scraping
  - Power tools with HEPA exhaust
- Worker Protection (OSHA)
  - Protective Clothing
  - Wash Stations
- Restricted Work Area
- HEPA Vacuum
- Warning Signs
- EPA Certifications Available
- OR: CA Certified Inspector Report / No LBP





# Regulatory Background

## Safe Work Practices: Renovations & Abatement





# Regulatory Background

## Renovations

**Renovations:** Repairs, Maintenance, Upgrades

Any activity that disturbs painted surfaces on Pre 1978 Residential or Public Building that has not been tested and classified as negative for LBP

- Prep and paint
- Component Replacement
- Plumbing Repairs
- Pressure washing / blasting
- Most permitted projects





# Regulatory Background

## Unsafe Work Practices: Renovations







## Unsafe Work Practices: Renovations

**HSC 17920.10: Lead hazard...disturbing lead-based paint without *containment* as defined in Title 17**

### **§36050. Lead-Safe Work Practices**

(a) Any individual conducting lead activities...shall:

(1) Use containment

(2) Ensure that the work area has no visible dust or debris following the completion of a project



# Regulatory Background

## Unsafe Work Practices: Renovations

### EPA Renovate Repair and Painting Rule

#### Residential / Child Occupied Facilities

- 6 square feet of interior (e.g., 3x2 ft) painted surface
- Disturb more than 20 square feet of exterior
- Replace any windows

#### Required

Safe Work Practices

EPA Certified Firms & Certified Renovators

Renovate Right



<ftp://ftp.sannet.gov/OUT/ESD/LSHHP/CACEO.zip>



# Regulatory Background

## EPA RRP Rule: Referral

### **Enforcement Official**

Submit RRP Referral Form with Pictures (evidence) to EPA Lead-Based Paint Enforcement Coordinator Max Weintraub

### **Resident**

<https://www.epa.gov/lead/forms/pacific-southwest-renovation-repair-and-painting-rule-tips-complaints>



# Regulatory Background

## RRP Rule: Suggested Supplemental NOV Language

Contractors that disturb painted surfaces in housing built prior to 1978 and any child occupied facility may require certification in accordance with the EPA Renovation, Repair, and Painting (RRP) rule. EPA Certified Firms are required to assign an EPA Certified Renovator to projects where painted surface are disturbed in these buildings. This rule is enforced by the EPA with penalties of up to \$37,500 per day per occurrence. Visit the EPA website at [www.epa.gov/lead](http://www.epa.gov/lead) to learn more about RRP Rule, obtain an EPA Certified Firm and Certified Renovator Certifications. The EPA has up to 90 days to process your Certified Firm application.

## Allowable Levels of Lead in Paint



- Pre-1955: White paint was commonly 50% lead (500,000 ppm)
- 1955: Optional industrial voluntary reduction to 1% (10,000 ppm)
- 1971: Federal mandatory maximum allowable level in new paint set at 1% (10,000 ppm)

<https://www.cpsc.gov/business-manufacturing/business-education/lead/lead-in-paint/>

1909 France, Belgium and Austria ban white lead interior paint	1933 Columbia, Nicaragua, Uruguay, Venezuela
1923 Czechoslovakia, Sweden	1936 Argentina
1924 Poland, Spain	1938 Mexico
1925 Bulgaria, Chile, Romania	1939 Afghanistan, the Netherlands
1926 Greece	1952 Italy
1928 Cuba, Luxembourg	1956 Hungary, Morocco, Tunisia
1929 Finland, Norway, Yugoslavia	1960-1988 19 more

**It was not until 1978 that the US adopted the ban**

**Lead paint poisoning affects over one million children today.**

If your home was built before 1978, visit [leadfreekids.org](http://leadfreekids.org).

Ad Council EPA

## EXAMPLES OF “ORDER TO ABATE” LANGUAGE

**Example 1:** (insert Agency name) conducted an inspection on (insert date) at a property you own at (insert address) and identified lead-based paint hazards that are violations of State Housing Law (California Health and Safety Code section 17920.10). Pursuant to California Health and Safety Code sections 17961 and 17980, (insert Agency name) is ordering you to abate the identified lead hazards within 30 days in order to protect current and future residents from lead poisoning.

**Example 2:** (*insert Agency name*) conducted an inspection on (*insert date*) at (*insert address*) and identified an activity that is creating a lead hazard. Pursuant to California Health and Safety Code section 105256, (*insert Agency name*) is issuing a Stop Work Order. You are required to (1) immediately stop the work that is disturbing paint, (2) clean up any paint chips, dust, and debris, and (3) place plastic tarps on the ground to catch any paint chips or dust before resuming work. Failure to comply may result in \$1,000 fine.

**Second Paragraph for both Example 1 and Example 2:** All deteriorated presumed lead-based paint shall be re-painted using “lead-safe” work practices, such as identified in Title 17, California Code of Regulations, sections 35016 and 36050. When the work is completed, contact our office and we will conduct a re-inspection to confirm that substandard housing conditions have been abated. For additional information on “lead safe” work practices, or to find a contractor who is trained and certified to conduct lead abatement activities, please contact the California Department of Public Health at (800) 597-5323 or via the internet at [www.cdph.ca.gov/programs/clppb](http://www.cdph.ca.gov/programs/clppb)

### What to tell owners/managers

- Ensure that all of your maintenance staff and any contractors you hire use lead-safe work practices.
- Consider hiring a certified lead inspector to test the property for lead hazards.
- Conduct inspections for deteriorated paint at turnover and annually and repair immediately.
- Eliminating lead hazards improves property and avoids liability.

### What to tell tenants

- If you live in a building built before 1978, report any deteriorated paint to your landlord immediately.
- Maintenance staff and contractors remodeling any building built before 1978 are required to use “lead-safe” work practices (such as putting down plastic tarps to catch paint chips and debris).
- If you see a worker who is not using “lead-safe” work practices, contact your local building department.



## RELEVANT CODES:

### DETERIORATED LEAD-BASED PAINT

- HEALTH AND SAFETY CODE SECTION 17920.10 (STATE HOUSING LAW)
- HEALTH AND SAFETY CODE SECTION 105256
- FAILURE TO USE LEAD-SAFE WORK PRACTICES/CREATING A LEAD HAZARD HEALTH AND SAFETY CODE SECTION 105255 | TITLE 17, CA CODE OF REGULATIONS, SEC. 36050

HEALTH AND SAFETY CODE §105256: AUTHORITY TO ISSUE AN ORDER TO ABATE FOR A CONDITION THAT HAS CREATED A LEAD HAZARD

HEALTH AND SAFETY CODE §17920.10:

ANY PORTION OF A BUILDING OR PREMISES THAT CONTAINS LEAD HAZARDS IS IN VIOLATION OF THE STATE HOUSING LAW. LEAD HAZARDS UNDER THIS PART ARE:

- DETERIORATED LEAD-BASED PAINT-INCLUDING PRESUMED.
- LEAD-CONTAMINATED DUST
- LEAD-CONTAMINATED SOIL
- DISTURBING LEAD-BASED PAINT WITHOUT CONTAINMENT



WRONG!

WRONG !!

**SYSTEMS  
CHANGE  
BENEFITS**

WRONG !!!

RIGHT!

# Rental Housing

EAST BAY RENTAL HOUSING ASSOCIATION | MAY 2019

## RENTAL INSPECTION PROGRAM

Performing Annual Safety Inspections for your Residents



PLUS:  
STAGING YOUR RENTAL HOME  
DON'T POKE THE BEAR - LESSONS LEARNED FROM BIG PHARMA



Permits for which no major inspection has been approved within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.



Permit No: RB1503645 Parcel No: 048H766300700 Job Site: 649 ALVARADO RD Page 2 of 2

**LICENSED CONTRACTOR'S DECLARATION**

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

**CONSTRUCTION LENDING AGENCY DECLARATION**

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Section 8172, Civil Code).

Lender's Name \_\_\_\_\_  
Branch Designation \_\_\_\_\_  
Lender's Address \_\_\_\_\_

**WORKERS' COMPENSATION DECLARATION**

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

- I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
- I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

**RRP ACKNOWLEDGMENT**

EPA's Lead Renovation, Repair and Painting Rule (RRP Rule) requires that firms performing renovation, repair, and painting projects that disturb lead-based paint in homes, child care facilities and pre-schools built before 1978 have their firm certified by EPA or use certified renovators who are trained by EPA-approved training providers and follow lead-safe work practices. As the contractor preparing to do work on a Pre-1978

building, I have read the explanation of the RRP Rule and will ensure that any paint disturbing work will be done by or supervised by an RRP certified individual(s). Failure to follow this rule may result in enforcement action by the EPA. For additional information on complying with lead safety requirements, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-253-2372 or visit <http://www.achhd.org>.

**HAZARDOUS MATERIALS DECLARATION**

I hereby affirm that the intended occupancy  WILL  WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, and 25534 of the Health and Safety Code, as well as filing instructions were made available to you).

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officials, officers, employees, representatives, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of the public right-of-way, public easement, or any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted. I further certify that I am the owner of the property involved in this permit or that I am fully authorized by the owner to access the property and perform the work authorized by this permit.

Name \_\_\_\_\_  
Signature \_\_\_\_\_  
 Contractor, or  Contractor's Agent Date \_\_\_\_\_

NOTICE: No activities related to the approved work, including storage/use of materials, is allowed within the public right-of-way without an encroachment permit. Dust control measures shall be used throughout all phases of construction.



**CITY OF EMERYVILLE**  
INCORPORATED 1988

1333 PARK AVENUE  
EMERYVILLE, CALIFORNIA 94608-3517

TEL: (510) 596-4300 FAX: (510) 450-7831

The Environmental Protection Agency (EPA) Renovation, Repair and Painting Rule requires renovators, painters, and rental property owners to be EPA-Lead-Safe Certified firms with an EPA Lead-Safe Certified Renovator for most paint disturbing work at pre-1978 residential properties. **Effective May 1, 2018**, the City of Emeryville has enacted ordinance 17-004 which requires that the applicant for any renovation work that is regulated under 40 CFR §745.82 submit a sworn statement that individuals performing the renovation are properly trained, renovators and firms performing the renovation are certified, and required work practices will be followed during the renovation. Building Permits required under CA, Building Code § 105.1 are subject to this ordinance.

- An EPA Lead-Safe Certified Renovator will be responsible for this project Certified Firm Name: \_\_\_\_\_ Firm Certification No.: \_\_\_\_\_
- No EPA Lead-Safe Certified Firm is required for this project because: \_\_\_\_\_
- Residential/School (circle)
- Multifamily

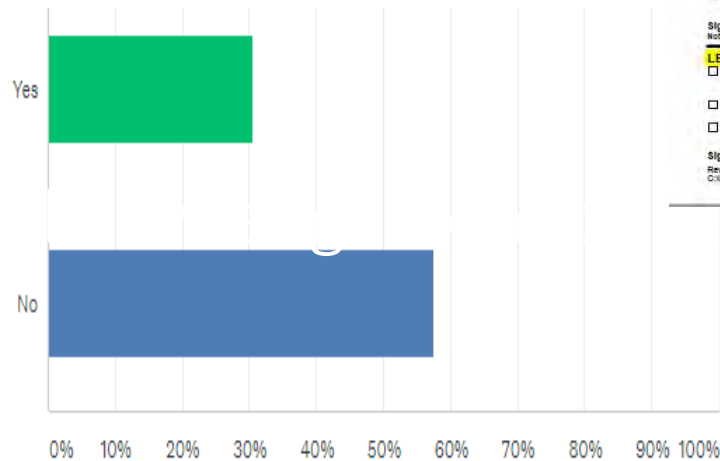
Applicant Information: \_\_\_\_\_

Project Address: \_\_\_\_\_

Signature: \_\_\_\_\_

For additional information on complying with lead safety requirements, training, certification, contact the Alameda County Healthy Homes Department at (510) 567-8280 or 1-800-B-Lead-Safe (1-800-253-2372) or visit website at: <http://www.achhd.org>

**Bldg Permit language**



17% language N&O

20% Stop Work Order



Gregory J. McFann – Building Official  
2263 Santa Clara Ave. Room 190 Alameda, CA 94501

510.747.6800 • TDD: 510.522.7538 [www.alameda.ca.gov/permits](http://www.alameda.ca.gov/permits)  
Hours: 7:30 a.m.–3:30 p.m., M–Th

**PERMIT APPLICATION**

Planning & Building

Residential /  Non-Residential |  Exterior Work /  Interior Work |  New Floor Area /  New Habitable Space

Job Address: \_\_\_\_\_ Permit # \_\_\_\_\_  
Owner's Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Owner's Address: \_\_\_\_\_ Job Valuation: \$ \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
If Job Valuation is under \$100,000, all debris will be:

- Total Project Square Feet: \_\_\_\_\_  Self-hauled in fixed-body truck by applicant or employee performing work where waste removal is incidental to project.
- Work Description: \_\_\_\_\_  Hauled by Alameda County Industries 510-483-1400.  If Job Valuation is \$100,000 and over, ask about GreenHaul.

**Planning Staff Use Only:**  
Built Before 1942  Yes  No  
Design Review Required  Yes  Exempt  
Planner: \_\_\_\_\_ Date: \_\_\_\_\_

**APPLICANT:** I certify that I have read the application and state that the information given is true and correct. I agree to comply with all local ordinances and state laws relating to building construction and make this statement under penalty of law. I hereby authorize representatives of the City of Alameda to enter upon the above-mentioned property for inspection purposes, except in those construction projects where the Building Official, due to the nature of the project, deems these limitations to be unreasonable. Every permit issued by the building official under the provisions of this code shall expire by limitation and become null and void if the building or work authorized by such permit is not complete within 3 years following the issuance date of such permit. Do not conceal or cover any construction work until the work is inspected by the City of Alameda and the inspection is recorded on the building inspection card.

I hereby agree to save, defend, indemnify and keep harmless the City of Alameda and its officers, employees, agents, and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorney's fees, against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street, or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

I do hereby acknowledge that I understand the following for projects valued at less than \$100,000: 1) I may not hire any contractor or business entity to place a dumpster or haul Construction and Demolition (C&D) debris other than the City's franchised waste hauler, Alameda County Industries (ACI); 2) I may choose to haul C&D debris myself; 3) Waste that is not C&D must be hauled by ACI.

Contractor  Owner  Design Professional  Agent  
Signature: \_\_\_\_\_ License # \_\_\_\_\_  
Print Name: \_\_\_\_\_ Email: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

**OWNER/BUILDER:** I hereby affirm that I am exempt from the Contractor's License Law for the following reason: (Sec. 7021.5, Business and Professions Code). Any city or county which requires a permit to construct, alter, improve, demolish or repair any structure prior to its issuance, also requires the applicant for such permit to file a signed statement that he/she is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he/she is exempt there from and the basis for the alleged exemption. Any violation of Section 7021.5 is, any applicant for a permit subjects the applicant to civil penalty of not more than the hundred dollars (\$100).

I, as owner of the property, am exempt from the sale requirements of the above due to: 1) I am improving my principal place of residence or appearance thereby; 2) the work will be performed prior to sale; 3) I have resided in the residence for the 12 months prior to the completion of the work; and 4) I have not claimed exemption in the subdivision on more than two structures more than once during any three-year period. (Sec. 7044, Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. (Sec. 7044, Business and Professions Code). The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor's licensed pursuant to the Contractor's License Law.  I, as owner of the property, am exempt under Sec. 7044, Business and Professions Code for this reason.

Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

**CONTRACTOR:** I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Contractor's Name \_\_\_\_\_ State License # \_\_\_\_\_ Business License # \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

**WORKERS' COMPENSATION:** (This section need not be completed if the permit is for one hundred dollars (\$100) or less.)  
 I affirm that I have a certificate of consent to self-insure or a certificate of Workers' Compensation insurance, or a certified copy thereof. (Sec. 3700, Labor Code)  
 I affirm that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation laws of California.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Notice to applicant: If, after making the Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code you must comply with the provisions, or this permit shall be revoked.

**LEAD HAZARD DECLARATION, SMOKE DETECTORS, CARBON MONOXIDE ALARMS, ENERGY & GREEN BUILDING CODE:**  
 I am aware of my responsibilities to implement lead-safe work practices as required by the California Health & Safety Code Sections 17520.10 and 105256 when conducting renovation, repair or painting work in pre-1978 residences, childcare facilities or schools. I will ensure that any paint disturbing work will be done by or supervised by RRP certified individuals. Failure to follow this rule may result in enforcement action by the EPA.  
 I certify that prior to obtaining final inspection I will install, test and verify the proper operation of smoke detectors/alarms, and Carbon Monoxide Alarms in compliance with the applicable requirements of the 2016 California Building Standards Code and in accordance with the manufacturer's requirements.  
 I certify that I will comply with all applicable 2016 California Energy & Green Building Code Requirements.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Revised 09/29/2016  
C:\Users\jcmf\OneDrive\Desktop\Building Permit Application w lead.docx



## Healthy Homes Department

Including the Lead Poisoning Prevention Program

Larry Brooks  
Director

### INFORMATION FOR Code Enforcement Officers

- [Mold and Dampness, California Department of Public Health Website](#)
- [Lead Renovation, Repair and Painting Program](#)
- [East Bay Housing Association, Rental Inspection Program, May 2019](#)
- [Healthy Housing Through Proactive Rental Inspection](#)
- [Proactive Rental Inspection, December 2014](#)

Larry Brooks, CACEO Region 2 Boardmember  
Director

Alameda County Healthy Homes Department  
Lead Poisoning Prevention Program

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<http://www.achhd.org/>



Lead Poisoning Prevention

ALAMEDA COUNTY  
**Healthy Homes  
Department**

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Environmental Services Home

General Information

Collection Services

Miramar Landfill

Recycling Programs

Hazardous Waste



## Environmental Services Department

[9601 Ridgehaven Court](#) #, MS 1102-A  
San Diego, CA 92123

### Customer Service

858-694-7000

Monday through Friday: 6:30 a.m. to 5 p.m.

## Chris Lee

Lead Safety and Healthy Homes  
Coordinator

Environmental Services Department  
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## City of San Diego

*Our vision: a world-class city for all*

Image by Cindy Devin

Feedback

<ftp://ftp.sannet.gov/OUT/ESD/LSHHP/CACEO.zip>