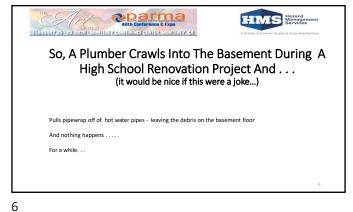
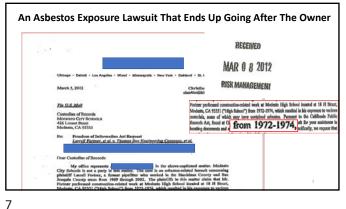
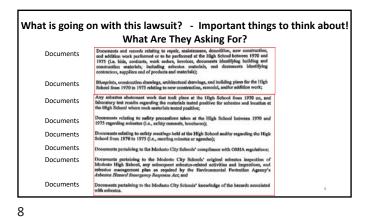
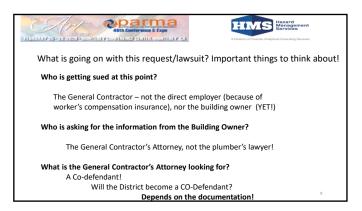


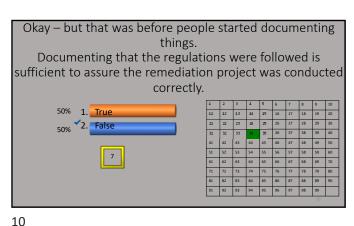
Hazard Management Services FIRST - SOMETHING THAT MUST BE UNDERSTOOD BY ALL: Hazardous Materials Remediation Is Not Construction Work, It Is Haz-Mat Work! The Liability Is Completely Different and You Must Protect Yourself Differently 5



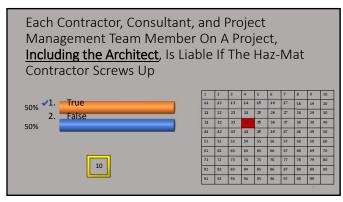




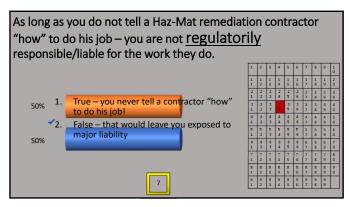














The Building Owner May Be Least Knowledgeable Concerning Applicable Regulations and Thought He'd Protected Himself By A Hiring A Construction Manager

The Construction Manager Should At Least Be Aware of Local, State and Federal Rules That Apply to Projects They Manage – Tired To Protect Himself By Hiring A Contractor

The Contractor Should Be The Most Knowledgeable

And Not Only Be Aware, But Understand The Regulations That Apply To The Work They Do!

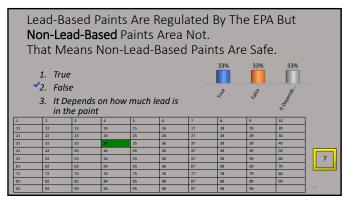
The construction company, Sincere Construction, is paying a penalty of \$1,500.

The construction consultant, Timothy Chu Construction Consulting Services, is paying a penalty of \$20,000.

The building owner is paying a penalty of \$149,000.

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Lead In Paint

1978 – LBP is defined as 5000 ppm, 0.5% by weight or 1.0 mg/cm2

This was based on the accuracy of an XRF in 1978 – not on health issues

Plus lead in paints sold to the public was limited to no more than 600 ppm

2009 CPSC reduces the amount of lead in paints sold to the public to no more than 90 ppm – this is the level available to this day.

21 22

 Why the concern for lead, but not for: Arsenic Barium Cadmium Cyanide Magnesium Mercury PCBs Zinc Silica Asbestos And, and, and.... · When you think about it - can you name any paint that is not harmful to swallow! ret, we test paint for lead and if low levels are found, most (but not all) regulations go away, If <u>no</u> lead is found, we basically do not concern ourselves with any of these other materials that are often found in Those materials highlighted in yellow – all have regulations that were issued or revised in the past couple three years.

23 24





- Paint manufactures recently lost a lawsuit to 10 Cities and Counties in CA because they advertised that Lead-Based Paint made the interior of homes safer.
- Today, latex paint is being marketed/sold as a safe alternative to lead-based paint. However, to my knowledge, today's latex paints are allowed to contain up to 300 ppm mercury in interior paints and 3000 ppm in exterior paints.
- I am not a Doctor but that does not sound all that safe to me.
- As a Risk Manager knowing that virtually all paints are potentially hazardous, how would you suggest your organization or clients best protect their future liability associated with <u>exposures to paint</u>?

28

I Tell My Clients That They Should Treat All Paints As If They Contain Lead

This protects both their health and liability
(Owners of hazardous materials are liable if/when others are exposed to them)

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The EPA's Renovation, Repair, Painting Rule for lead.

New Enforcement Styles

- 1. Go After Owners That Hire Non-RRP contractors
- 2. Site Contractors that bid RRP projects without being RRP certified

SE PUER ASTRONOMY 25 - 29 2021 - MINITEREY 2015 FRANCE SENTED MONTEREY, 20



With Lead - What Is Cal/OSHA Going To Do?

- Cal/OSHA is in the process of revising 8 CCR 1532.1 and 5198

 (They have been at it for about 8 years now not quite as long as the paint manufacturer's lawsuit but far longer than it should take!
- How will they revise 1532.1 AND 5198?

Cal/OSHA Is Going to Reduce the PEL and Action Levels
These are the biggest of the changes – but there are numerous other
changes that will affect every contractor and maintenance crew out
there! (Medical Removal, Lunch Area Wipes, Revised Trigger Tasks, etc.)

27





NEW LEAD RULES RECENTLY IMPLEMENTED AND ON THEIR WAY!

AB 35 has just this month made blood lead levels above 20 micrograms of lead in a deciliter of blood (20 ug/dl) an issue for every contractor in the construction world and every maintenance worker in any type of facility to be concerned with.

SB 83 (Section 12) Requires Cal/OSHA to "implement(?)" the remaining changes that Cal/OSHA has been working on for the last 8 years this coming September 30th

I advise contractors (and others exposed to lead during their job) to do air sampling before these changes go into effect.

This gives them time to change their processes if they cannot stay below 2 ug/m3 without triggering the Action Level requirements for lead.

(Training, regular Blood Testing and Increased Air Sampling)



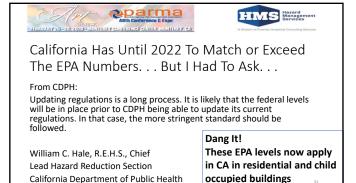


A symptom of lead poisoning is an overall sense of confusion – get ready for a little lead poisoning:

2017 – HUD Lowered lead in dust hazards and post abatement clearances for floors from 40 ug/sf to 10 ug/sf.

As of 1/6/20 – The EPA lowered the lead hazards level from 40 ug/sf to 10 ug/sf – BUT LEFT POST ABATEMENT CLEARANCE LEVELS AT 40 ug/sf!

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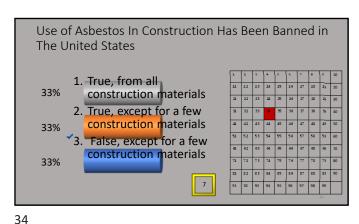
The belief that pre-1978 paint is something to worry about, but post 1978 paint is not, is totally wrong — and misleads many people, and regulatory agencies, into handling newer paints inappropriately.

100%1. True

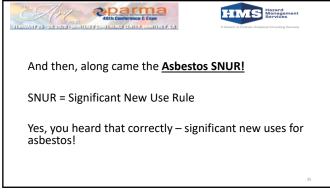
| lam looking for 100% on this one! | lam looking for 100% on this

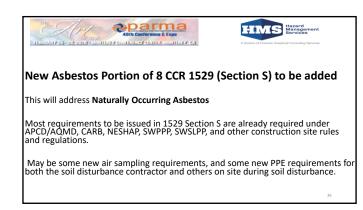
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For School Districts – a fibrous blast from the past!

The EPA has recently restarted enforcing the Asbestos Hazard Emergency Response Act!

Apparma
Anth Conference & Expe



What's Up With Mold

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Toxic Black Mold Is The Worst Type Of Mold To Find In Your Building

25%

1. True
2. False, it may be toxic but there are other molds more deadly
25%

3. There is no such thing as toxic mold.

4. Only if you touch or eat it.

COPIED FROM THE CDC's WEBSITE:
TOXIC MOLD

Question:
I heard about "toxic molds" that grow in homes and other buildings.
Should I be concerned about a serious health risk to me and my family?

Answer:
The term "toxic mold" is not accurate.

Hazards presented by molds that may produce mycotoxins should be considered the same as other common molds which can grow in your house.

There is always a little mold everywhere - in the air and on many surfaces.

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Typically, The Biggest Mistake With Mold?

- Not realizing it could be growing in asbestos and lead containing materials!
- You must document materials disturbed during mold remediation are both asbestos and lead free, regardless of the installation date of those materials! Oh, and watch out for that silica exposure!
- There may not be actual "Toxic Mold" but that does not mean there is no such thing as "Toxic Mold Lawsuits!"





SB 655 (A few years back):

Well, it started off as a good idea. . .

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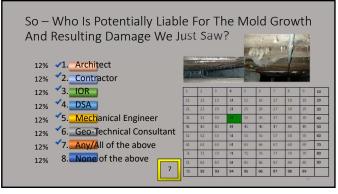








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Cal/OSHA Regulations 8 CCR 1532.3 for Construction and 8 CCR 5204 for General Industry

Requires contractors and others to have, and to evaluate the effectiveness of, a Silica Exposure Plan



Only way, I can think of to evaluate the effectiveness of a control plan designed to protect you from a microscopic particulate?

Air Samples!

49





It sounds like air samples are unavoidable – but some people just never trust a consultant . . . So – let's ask Cal/OSHA:

Dear Cal/OSHA:

I am wondering if you can help me clarify some questions I receive when conducting training on employee requirements for disturbing silica containing materials. The most common que-annual review of the silica handling policies and requirements for air sampling.

In 1532.3 it states under section (c):

(c) Specified exposure control methods. (1) For each employee engaged in a task identified on Table 1, the employer shall fully an roperly implement the engineering controls, work practices, and respiratory protection specified for the task on Table 1, unless the employer assesses and limits the exposure of the employee to respirable crystalline silica in accordance with subsection (d).

This portion of 1532.3's requirements has many people believing that if they imple follow the work practice requirements and use the proper respirator (which is often none) listed in Table 1, that the do not need to do any air sampling. I do not agree with that position, as I explain below, but your opinion is more **eparma**

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CAL/OSHA's RESPONSE:

Dear Mr. Sharp:

How stupid can you be?

Love,

Cal/OSHA.

51





CAL/OSHA's RESPONSE:

As usual your industrial hygiene instincts are top notch. However, <mark>federal OSHA does not agree with you</mark> — perhaps in part this is a result of the negotiating art around rulemaking. I explain below, but don't let the bare minimum of what's required in the regulation prevent you from giving advice to contractors to the effect that more effective application of the art of industrial hygiene requires quantitative exposure assessments beyond the limitations of the regulation—from IH theory, exposure assessment is always a prudent check on effectiveness of procedures limiting

During the long federal silica rulemaking process, federal OSHA had long exchanges with stakeholders on exactly the issues you raise. In response to stakeholders' views on exposure assessment for Table 1 tasks, federal OSHA changed Table 1 tasks. In the end, stakeholders such as NIOSH, the AIHA, ASSE, and assorted unions endorsed the approach of relying on Table 1 w/o additional monitoring. Said a safety representative of the Laborer's union, the Table 1 approach "not only makes compliance . . . easier to determine, enforce, and teach, it also assures acceptable

Cal/OSHA sent me a copy of the complete Federal Regulation - including the Preamble,



Cal/OSHA Continues:

To me, these examples (and the overall answer to your question) mean that the silica exposure control plan

It may have to include checklists and tool manufacturers' specifications for proper use the implementation of these specification

If I was doing a Cal/OSHA inspection review of such a silica exposure control plan addressing Table 1 tasks, I would look for inclusion of such specific behaviors, repair frequencies, checklists and the like and I would need to see documentation that these oversight functions are indeed being carried out on a daily basis. Without all of that, I'd likely find a violation.

So you should tell your students that following Table 1 may obviate the need for industrial hygiene exposure monitoring, <u>following Table 1</u> is **NOT A TRIVIAL TASK**. Daily attention to detail and good necessary for the workers to be successfully protected using Table 1.





Do We Really Want To Know What's Up With PCBs?

40th Conference C Expo



Anywhere you may run into PCBs, the EPA is going to require you to handle them in some fashion.

If you work in the San Francisco Bay Area – run and hide as fast as you can! The situation there is a complete mess, unless you live is City or County of SF – then you are mostly fine (just have to follow the EPA stuff).

BASMAA guidelines that were supposed to protect the SF Bay from PCB contamination, when followed can add tens of thousands of dollars to a Building Inspection, and millions of dollars to a building demo!

And, at times, require activities more likely to release PCBs than traditional demolition activities!!!

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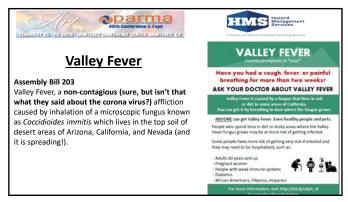
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What's Up With Valley Fever?

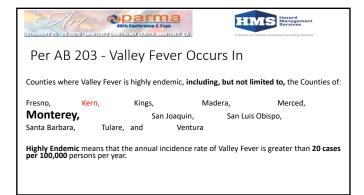
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WILDFIRE SMOKE

- AQI of 150 PM2.5 requires N95 respirators to be issued by employers (8 CCR 5141.1) Must offer use of N95 respirators.
- AQI of 500 PM2.5 requires workers actually use P100 (HEPA) filtered respirators per 8 CCR 5144.

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New Style of Enforcement

One regulatory agency reporting to another.

Asia Conference & Experience &



Is there time left to discuss these?

<u>Lead and Copper Rule</u> – I am so confused!

There is both a Federal Lead and Copper Rule and a California Lead and Copper Rule – they change often enough that it is difficult to determine which is more stringent!

Water quality rules for drinking water and storm water run-off.

I can casually discuss these, but if you want great knowledge and specific details – I need to bring in others I work with, who know more than me!

Yeah, yeah, yeah – enough already – who won the game?

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Best Looking People In the Room . . .

