Lead-Based Paint & Residential Brownfield Sites

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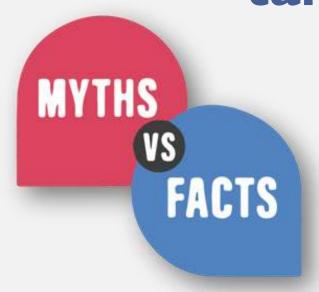


INTRODUCTION TO LEAD

- Lead is a naturally occurring element.
- Lead paint was used in the United States until it was banned for consumer use in 1978.
- There is no safe level of lead; small amounts of lead exposure can cause life-long harm.
- Young children and pregnant women are most at risk.
- Lead is assumed to be present in all pre-1978 Facilities.



This is how much lead it takes to poison a child





Sources of Childhood Lead Exposure in the United States

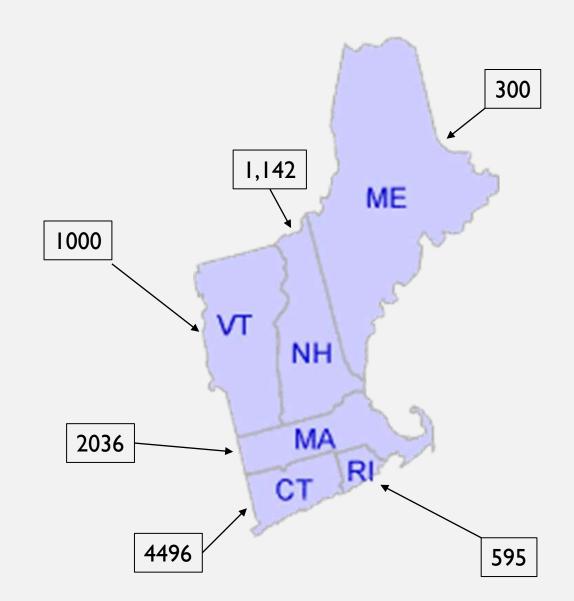
The most common source of exposure for young children in the US is lead paint in older homes.







CHILDHOOD LEAD POISONING IN NEW **ENGLAND**



LEAD & BROWNFIELDS

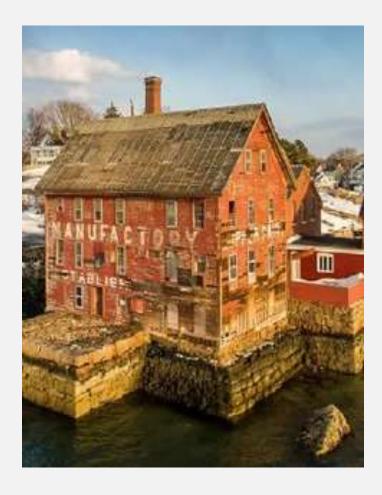
EPA's Brownfields Program funds abatement projects.

Voluntary Cleanup Programs: Performing risk-based cleanups

- Methods focus cleanup based on risk of exposure and standards for reuse.
- Result of a risk-based cleanup is that some contamination is left on site.

Brownfield Conversions to Residential Use

- Brownfields properties can be converted into residential use through proper remediation and lead-safe work practices.
- Construction and renovation activities in pre-1978 properties are assumed to disturb lead paint.





HOW DO LEAD PAINT RULES APPLY TO BROWNFIELDS?

- Lead abatement makes a property lead-safe, not always lead-free.
- States Departments of Health administer lead abatement programs.
- EPA administers the RRP and Lead Disclosure rules:
 - RRP Lead safe work practices must be followed by everyone disturbing painted surface.
- Contractors and firms redeveloping brownfield sites must consider lead regulations before, during and after conversion.



LEAD ABATEMENT

Goal: to eliminate lead-based paint using removal, encapsulation, enclosure, or replacement

- All six New England states administer abatement programs.
- Lead abatement workers, lead risk assessors, and lead inspectors must be trained and certified.
- Lead records are created & live with the property forever.



ABATEMENT: LEAD-SAFE VS. LEAD-FREE

Encapsulation & Enclosure

Lead is present, temporarily lead-safe

- Lead-based paint remains at the property.
- If encapsulated areas are disturbed lead hazards are created.
- Consider requiring a lead management plan.

Removal & Replacement

Lead is absent, permanently lead-free

- All Lead-based paint, including intact surfaces, is removed and/or replaced.
- No areas abated with encapsulation or enclosure at the property.
- Requires testing to claim leadfree status.

Remember: Lead-Safe is Not Lead-Free



LEAD DISCLOSURE RULE

Goal: Landlords and sellers of pre-1978 housing must provide all lead records to buyers/renters before sale/lease

- Lead disclosure is required in pre-1978 properties.
- Enforced by EPA and HUD; some state have similar, but separate requirements for lead disclosure
- Lead records live with the property forever.





Protect Your **Family** From Lead in Your Home







United States Consumer Product Safety Commission



DISCLOSURE & RESIDENTIAL REDEVELOPMENT

During Redevelopment lead records are created.

Prior to occupancy disclosure of <u>all</u> lead records is required:

- Lead Testing Results
- Lead Risk Assessments
- Lead Inspection Reports
- Lead Clearance.

And other documents pertaining to the presence or absence of lead-based paint (intact or deteriorating) and/or lead based paint hazards (soil/dust).



RENOVATION, REPAIR, & PAINTING (RRP) RULE

Goal: to perform renovation activities, without the intent to abate lead

- RRP assumes lead is present in pre-1978 properties.
- Regulates businesses offering and performing renovations in pre-1978 properties
- Firms and Renovators must be certified and trained in lead-safe work practices

In New England

- EPA RRP program: ME, NH, & CT
- State RRP program: MA,VT, & RI



RRP & RESIDENTIAL REDEVELOPMENT

Redevelopment of pre-1978 buildings can be covered by the Renovation Repair and Painting (RRP) rule...

- If cumulative disturbance of painted surface is greater than 6 sq ft interior, and/or 20 sq ft exterior.
- If window replacement or partial demolition occurs.

During conversion from commercial to residential...

- If RRP is followed, lead-safe work practices protect workers and future residents from potential lead exposure.
- If RRP is not followed, non-complaint work practices expose workers and future residents to potential lead hazards.



CASE STUDY

Historic Cargill Falls Mill, LLC
Putnam, CT

- On March 21, 2024, U.S. EPA Region 1 issued an Administrative Order on Consent under the Resource Conservation and Recovery Act Section 7003 to Historic Cargill Falls Mill, LLC for their property, the Lofts at Cargill Falls Mill
- Order required:
 - Abatement of lead-based paint and/or dust hazards in all residential units that previously had not been abated
 - Relocation of tenants during abatement
 - Additional lead testing at the property for the next five years
 - Future abatement if lead hazards are found
- Resulted in abatement of 50 units



CASE STUDY

Brady Sullivan Mill West Manchester, NH

- In May 2015, EPA conducted inspections at a property owned by Brady Sullivan Millworks, LLC. for violations of the Lead Disclosure Rule and RRP
- Inspections found dust and chipping paint throughout the interior common areas
- Alleged Brady Sullivan failed to provide tenants in 14 apartments proper lead-paint disclosure
- In June 2015, EPA ordered Brady Sullivan to clean up lead dust and chipping paint
- Resulted in penalty of \$90,461



WHO DO WE WORK WITH? STATE LEAD PARTNERS

- Connecticut Department of Public Health
- Maine Department of Environmental Protection
- Massachusetts Department of Labor Standards
 Massachusetts Department of Public Health
- New Hampshire Department of Health and Human Services
- Rhode Island Department of Health
- Vermont Department of Health

STATE LEAD WEBSITES

Connecticut:

https://portal.ct.gov/dph/environmental-health/lead-poisoning-prevention-and-control/lead-poisoning-prevention-and-control-program

Maine:

https://www.maine.gov/dep/waste/lead/index.html

Massachusetts:

https://www.mass.gov/orgs/childhood-lead-poisoning-prevention-program https://www.mass.gov/orgs/department-of-labor-standards

New Hampshire:

https://www.dhhs.nh.gov/programs-services/environmental-health-and-you/lead-poisoning-prevention-program

Rhode Island:

https://health.ri.gov/lead-poisoning/environmental-lead-program

Vermont:

https://www.healthvermont.gov/environment/healthy-homes/lead-hazards-and-lead-poisoning

QUESTIONS?

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EPA New England Region | Tip Line (617)918-1111, Select Option #3, & then #2 https://www.epa.gov/lead/reporting-violation-lead-paint-rules-new-england

EPA National Lead Hotline (888)372-7341

