



2020 Webinar Series



The Role of Municipalities in Asbestos Regulation Today!

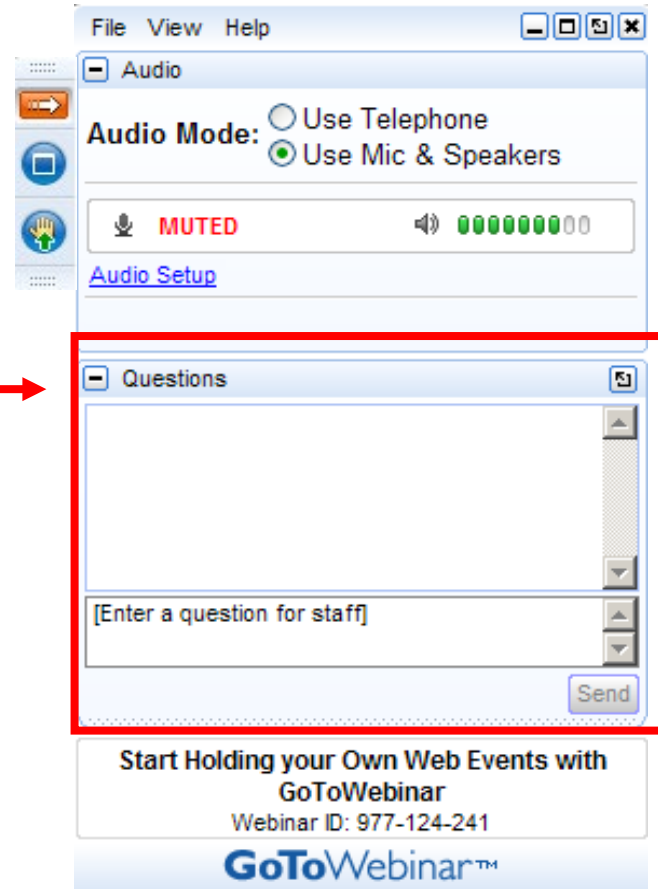
Presented by:

- ▶ *Thomas Livingston, Asbestos Program Inspector
Air Resources Division, Compliance Bureau
New Hampshire Department of Environmental Services*

Wednesday, February 12, 2020

How to Participate Today

- Open and close your panel →
- Submit text questions
- Q&A addressed at the end of the webinar session →
- Quick survey question for you!



ASBESTOS PRESENTATION

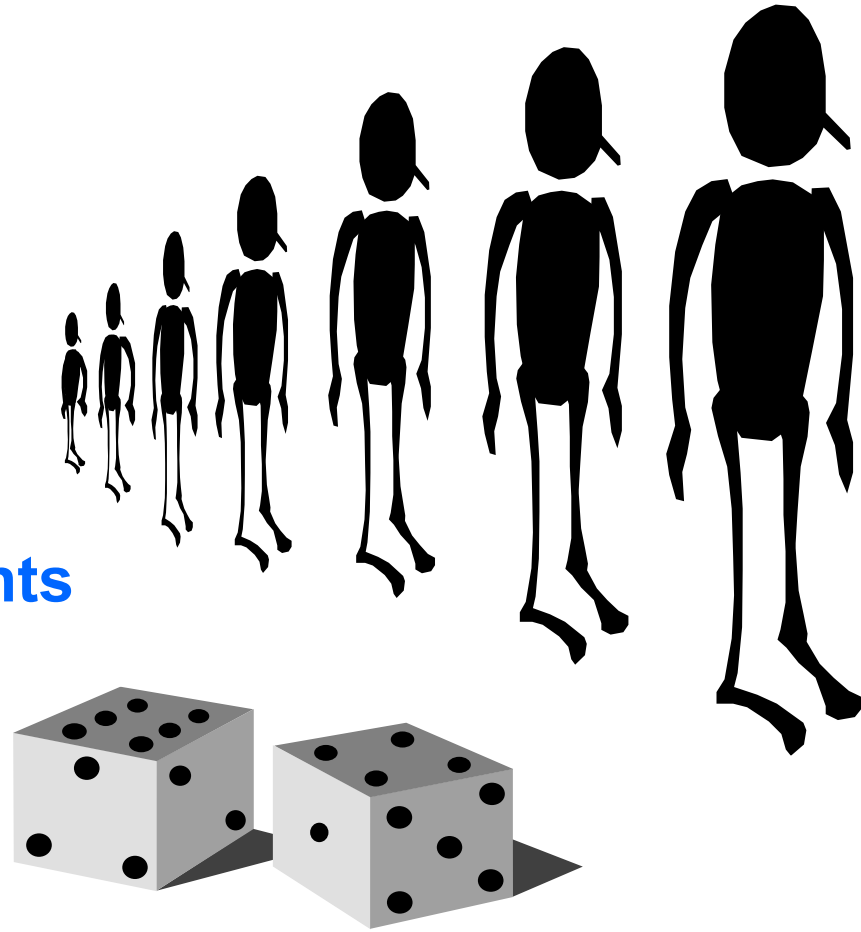
1. **Health Effects**
2. **History of Asbestos**
3. **Regulation of Asbestos**
4. **Asbestos Management**
5. **State & Local Partnerships**
6. **Asbestos Resources**

Types of Exposure

- Inhalation (Breathing Zone Air)
- Ingestion (Liquids & Solids)
- Injection (Open Wounds & Injuries)

Risk Factors for disease

- Dose
- Duration of exposure
- Frequency
- Other environmental irritants
- Genetic predisposition



Second Hand Exposure Vectors

- Co-Workers
- Family and Friends
- Residents
- Clothing & shoes
- Dermal Contact



What Is Asbestos?

- Naturally Occurring Mineral
- Made of:
 - ✓ Silicon
 - ✓ Oxygen
 - ✓ Hydrogen



KIND OF ASBESTOS

Chrysotile $\text{Mg}_3\text{Si}_2\text{O}_5\text{OH}_4$

Crocidolite $\text{Na}_2\text{Fe}_3^{2+}\text{Fe}_2^{3+}\text{Si}_8\text{O}_{22}(\text{OH})_2$

Amosite $(\text{Mg},\text{Fe})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$

Tremolite-actinolite $\text{Ca}_2(\text{Mg},\text{Fe})_5\text{Si}_8\text{O}_{22}(\text{OH})_2$

Anthophyllite $(\text{Mg},\text{Fe})_7\text{Si}_8\text{O}_{22}(\text{OH})_2$



Asbestos Quebec Canada



Some Characteristics



- ◆ High Tensile Strength
- ◆ Nonconductive
- ◆ Non-combustible
- ◆ Resistant to Corrosion
- ◆ Strong and Flexible
- ◆ Light weight
- ◆ Microscopic Fibers
- ◆ Non-Biodegradable



Classifications

"FRIABLE"

Crumbled or pulverized under hand pressure



Classifications (cont.)

"NON-FRIABLE"

Can NOT be crumbled or pulverized under hand pressure





FEDERAL REQUIREMENTS

40 CFR 61 US EPA

- Mandates Inspections

49 CFR 107, 171-173 US DOT

- Packaging & Transport.

40 CFR 763 AHERA

- Training For Inspectors

29 CFR 1926 US OSHA

- Employee Safety

EPA & NH Delegation

- **A.H.E.R.A.**

 - Asbestos Hazard Emergency Response Act**

 - Mandates the continuous monitoring and active management of all asbestos in K-12 non-profit Schools.

- **N.E.S.H.A.P.**

 - Mandates that all asbestos that all ACBM be removed from commercial, industrial and residential properties with 4 or more units prior to when it would otherwise be disturbed by planned renovation and or demolition activities.

- **EPA Worker Protection Rule**

 - Extends OSHA regulatory standards to Federal, State & Local government workers



NH REQUIREMENTS (NH DES)

Department of Environmental Services

Air Resources Division: Env-A 1800

- Requires that Inspections for Asbestos be Conducted
- Establishes Work Practices for Asbestos Abatement Activities, and Requires that Asbestos Abatement and Asbestos Disposal Site Contractors and Workers be Trained and Licensed.

Waste Management Division: PART Env-Wm 2601

- Establishes Asbestos Requirements

Town & City

- Demolition Permits (Are you a co-conspirator?)
- Building Renovation Permits (Is there Municipal Liability?)
- Code Inspection Staff Exposures
(Are they at risk of exposure, are you?)
- Are your schools AHERA Compliant?
(Are your faculty, Staff & Students at Risk?)

Is your municipality operating under;
legal, civil or Regulatory
PERIL?

**** NHDES is seeking municipal involvement) ****

Common Asbestos Containing Materials (ACM)

- Thermal System Insulation (**T.S.I.**)
- Spray-on Fire Proofing for Structural Steel
- Roofing Materials (**Felts, Insulation Panels, Tar, Transite & Asphalt Shingles**)
- Spray-on Surface Texturing (**Textured Ceiling**)
- Flooring (**Tiles & Sheet Vinyl**)
- Adhesives (**Mastic**)
- Ceiling (**Suspended Ceiling Tiles**)
- Siding (**Transite**)
- Windows (**Glazing and Caulk**)
- Friction Pads & Seals (**Clutch & Break Pads and Gaskets**)
- Attic Insulation (**Vermiculite**)
- Other (**Joint compound, heat shields & Misc. Building Components**)

Where You May Encounter A.C.M.



PACKAGING REQUIREMENTS

- All waste is to be packaged **“Wet”** .
- Packaging must allow no **“visible emissions”** .
- Packaging must be **“Sealed”** .
- Packaging must be properly **“labeled”** .
- Packaged waste must be stored in a **“Secure”** Location.

STANDARD WASTE BAG

- OSHA Warning
- DOT Information
- Generator Label



Pre- Demo Inspection



Pre- Demo Inspection



Asbestos Inspectors

Env-A 1802.14

Defines an
Asbestos Inspector as:

“an individual who is capable of identifying asbestos hazards in a commercial, private, or residential structure, and who has completed, at a minimum, a training course for asbestos inspectors meeting the requirements of 40 CFR 763, subpart E, appendix C, section 1:B.3.”



The Single Family, Owner Occupant Exemption

Env-A 1801.03 Homeowners.

The single family owner occupant (SFOO) exemption applies to owners of private, single-family residences, wherein the owner occupies the dwelling, and is not intending to rent, or sell, the dwelling within the next 6 months.

The Single Family, Owner Occupant Exemption

Qualifying single family owner occupants, who personally perform asbestos abatement activities, must comply with:

Env-A 1804.08,
Env-A 1805.07, and
Env-A 1805.08(a), (c), & (d).

As follows:

The Single Family, Owner Occupant Exemption

Pursuant to Env-A 1805.08 (a),(c) & (d), the SFOO who performs asbestos abatement

- (5) Within 30 days after delivery of ACM to the disposal site, the homeowner shall provide a copy of the waste shipment record to the department.

NHDES WEB SITE

WWW.DES.NH.GOV

The screenshot displays the NHDES website homepage. At the top, there is a navigation bar with links for PUBLIC, GOVERNMENT, BUSINESS, and A to Z LIST. Below this is a 'Welcome!' banner for the New Hampshire Department of Environmental Services, featuring a 'Welcome!' heading and a link to 'Investigation into the presence of Per- and Polyfluorinated Substances (PFAS) in New Hampshire'. The main content area is divided into several sections: 'NHDES News' with a list of recent news items, 'What's New' with links to various reports and grants, and 'Hot Topics' with links to public comment periods and water quality issues. On the left side, there is a sidebar with a navigation menu, 'OneStop Data and Information', 'ALERTS' for Air Quality, Beach Advisory, Cyanobacteria, and Drinking Water, and 'PROTECT YOUR TAP' with a link to 'START HERE'. Below this is the 'New Hampshire Environmental Dashboard' and social media icons for Facebook, Twitter, YouTube, and Instagram. On the right side, there is a search bar, an 'NHDES Calendar', 'This Department' list, 'Quick Links', and 'How Do I...?' section. The footer includes a language selection dropdown and a note about accessibility.

https://www.des.nh.gov/index.htm

Welcome | NH Department ... X

an official NEW HAMPSHIRE government website

Welcome!

New Hampshire Department of Environmental Services

[Investigation into the presence of Per- and Polyfluorinated Substances \(PFAS\) in New Hampshire](#)

NHDES News

- February 3, 2020
NHDES Commissioner Asking For Input On Agency Activities
- January 22, 2020
NHDES Declares Air Quality Action Day
- December 30, 2019
NHDES Declares Air Quality Action Days
- December 11, 2019
NHDES Awards Wetlands Protection And Stream Restoration Grants
- November 13, 2019
Announcing The Winners Of The #KingTide1612019 Photo Contest
- October 22, 2019
Snap The Shore, Face The Future!
- October 8, 2019
Public Hearing On Draft Air Permit For Air Pollution Control Equipment At Saint-Gobain Performance Plastics And Information Meeting To Provide Update On Southern New Hampshire PFAS Investigation
- October 3, 2019
Now Available: The New Hampshire Flood Hazards Handbook For Municipal Officials

What's New

- CMSRF Public Notice - V1 Reduction Phase 2 Contract 1, Berlin, NH (Comments Due January 2, 2020)
- 2019 Biennial Solid Waste Report
- Boating Infrastructure Grant (BIG) Funding Requests Due August 16
- New Online Payment System For SSB's E-Permitting Coming In May - EChecks To Be Accepted!
- Spot-Headed Eel Summary - 1st Jan, South Branch Piscataway River
- 2019 Clean Diesel Grant
- Drought Management
- Net Drinking Water And Groundwater Trust Fund Website
- Volkswagen Settlement
- Environmental News Newsletter
- New Hampshire's Environmental Dashboard

Hot Topics

- Climate Transport Commission Notice Of Public Comment Period
- Water Quality Certification Issued For QuakerWare Growth Power - Withdrawal From Upper Ammonoosuc River
- EDA's Review Of The Final Phosphorus TMDL Report For Phillips Pond In Sandown, NH
- EDA's Approval Letter For The Final Phosphorus TMDL Report For Phillips Pond In Sandown, NH
- Alert! Obtaining Emergency Authorization To Repair/Replace Damaged Culverts
- New Hampshire National Pollutant Discharge Elimination System Study Commission
- Wetlands Banknote Rulemaking And Process Improvement Effort
- Great Bay Estuary

Adobe Acrobat Reader Format. Download a free reader from [Adobe](#).

NHDES is working to make all of our online documents fully accessible. If you have any problems accessing a particular file, please contact us and we will make the necessary accommodations.

Select Language



**Questions?
Concerns?**

Upcoming Webinar



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Upcoming Webinar



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Upcoming Webinar



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Upcoming Workshops

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2020 Local Officials Workshops

Free to Members

FREE workshops for seasoned and new municipal officials and employees of NHMA member municipalities.

Presented by NHMA's Legal Services attorneys, these workshops provide municipal officials with tools and information to effectively serve their communities. Topics will include the Right-to-Know Law, ethics and conflicts, effective meetings, town governance, municipal roads, budget and finance, and more. Ample time allowed for questions, answers, and discussion. Attendees will receive a complimentary copy of NHMA's 2020 edition of the publication, *Knowing the Territory*

DATES AND LOCATIONS

9:00 am – 4:00 pm

Registration begins at 8:30 am.

Continental breakfast will be provided.



Tuesday, April 7: Concord (NHMA Offices)

Tuesday, April 21: Newington (Town Hall)

Tuesday, May 19: Peterborough (Community Center)

Thursday, May 28: Sugar Hill (The Meeting House)

Registration Now Open!

No Registration Fee.

To register online, please visit www.nhmunicipal.org and click on the Calendar of Events.

Cancellation must be received 48 hours in advance. If cancellation is not received 48 hours in advance, NHMA will charge you \$20 to cover workshop costs, including any meals.

Questions? Please call 800.852.3358, ext. 3350 or email NHMAregistrations@nhmunicipal.org

12:00 noon – 1:00 pm

LUNCH ON YOUR OWN

Time provided for attendees to get lunch!





Upcoming Workshops

Save the Date

Managing Cybersecurity Risk for Local Government
A STATEWIDE CYBER SUMMIT

Wednesday, April 8, 2020
1:00 PM – 4:30 PM
Grappone Center, Concord

Join leaders in cybersecurity from Federal, State, and local government to learn about threats, resources, and capabilities.

Watch for online registration at nhprimex.org!

The bottom section of the graphic contains several logos. From left to right: the NHMA logo, the Seal of the State of New Hampshire, a yellow five-pointed star with a blue center, the logo for the New Hampshire Department of Safety (Homeland Security Emergency Management), the Primex logo (NH Public Em. Management Exchange), and the logo for the State of New Hampshire Department of Information Technology (DoIT).



for joining
us today!

NHMA'S MISSION

Through the collective power of cities and towns, NHMA promotes effective municipal government by providing education, training, advocacy and legal services.

