ALL ABOUT ASBESTOS: REGULATION REQUIREMENTS, HANDLING, AND DISPOSAL

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#### **IMPORTANT LINKS:**

<u>Contact Us (alaska.gov)</u>:

Contacts for DEC Solid Waste Department

<u>Asbestos National Emission Standards for Hazardous Air Pollutants</u> (NESHAP) | US EPA :

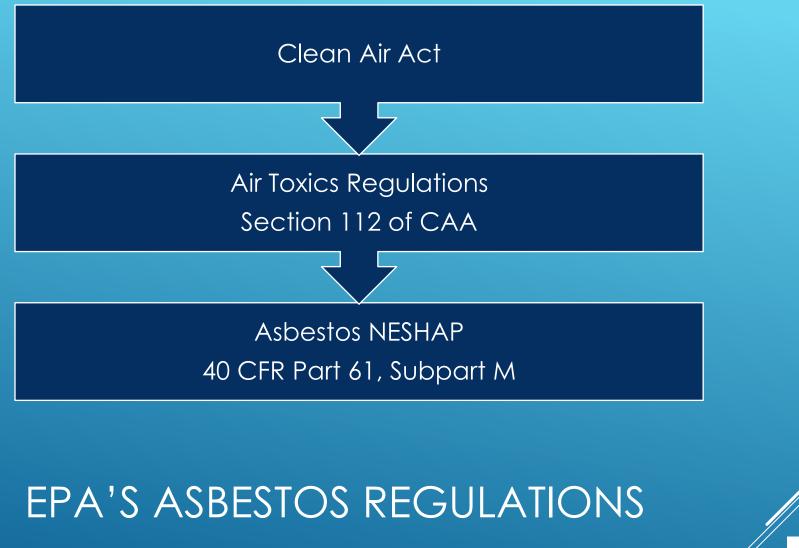
Link to EPA Contacts and NESHAP Regulations

► John Pavitt

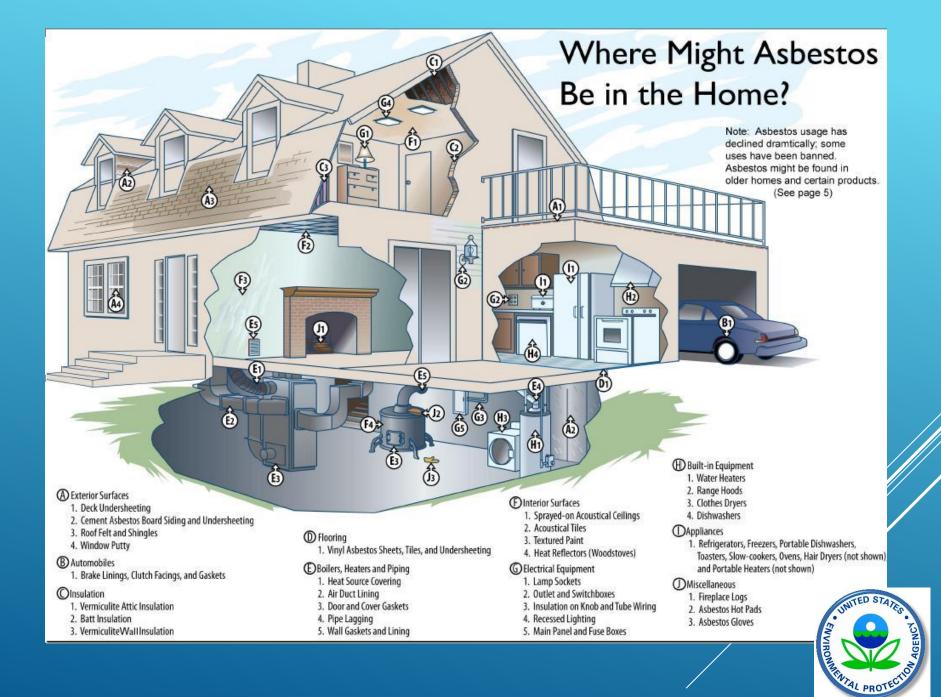
- ► US EPA, Region 10
- Alaska Operations Office
- ▶(907)271-3688
- ▶pavitt.john@epa.gov

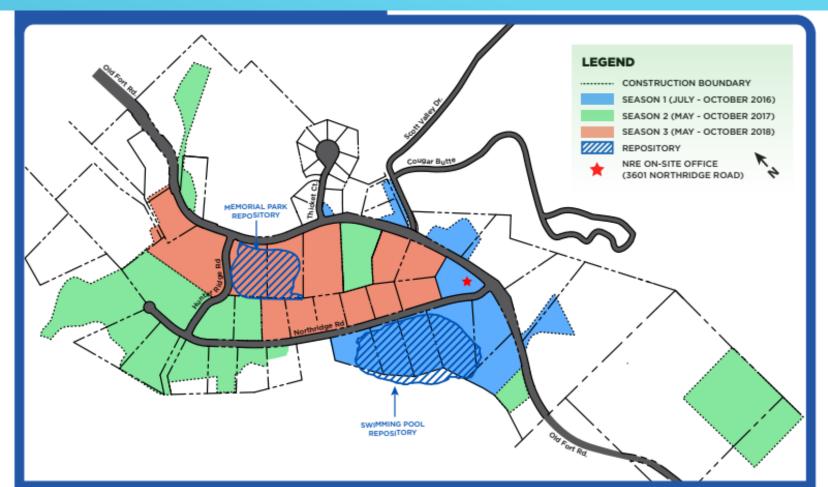
### ASBESTOS CONTAMINATION AND REMEDIATION











This map shows the anticipated sequence for property excavation each season. Work occuring at unoccupied properties is subject to change.

HOME CAN BE AT A SUPERFUND SITE (KLAMATH FALLS, OR)







#### HOME DEMOLITIONS AND RENOVATIONS CAN DISTURB ASBESTOS (EPA REGS MAY APPLY)



#### WHAT IS ASBESTOS?

- A naturally occurring mineral.
- Used in many building materials.
- Breaks up into very fine fibers.
- > A known human carcinogen.





- > About 3,500 materials are known to contain asbestos.
- Some products may still contain asbestos (most uses are not banned).
- Common examples: pipe insulation, ceiling texture, roofing asphalt, floor tile, cement pipes...

### ASBESTOS CONTAINING BUILDING MATERIALS



### AIR CELL INSULATION (PAPER)



#### PIPE ELBOWS





#### CEMENT BOARDS (UNDER TANK)

### CEMENT BOARDS (ON BUILDING)







#### MOLDED PIPE INSULATION









#### SPRAYED ON DRYWALL

#### **ON CEILINGS**







#### EPA REGULATES

"Facilities" undergoing: > All Demolitions Renovations that Exceed regulatory thresholds Disturb "friable" materials



#### EPA REGULATES

#### Facility means

any institutional, commercial, public, industrial, or residential **structure**, **installation**, **or building** (including any structure, installation, or building containing condominiums or individual dwelling units operated as a residential cooperative but excluding residential buildings having four or fewer dwelling units); any **ship**; and **any active or inactive waste disposal site**.

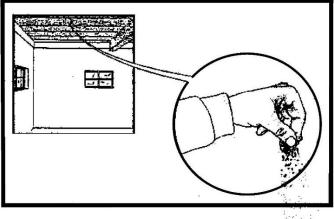




#### EPA REGULATES: RENOVATIONS W/ "FRIABLE" ASBESTOS







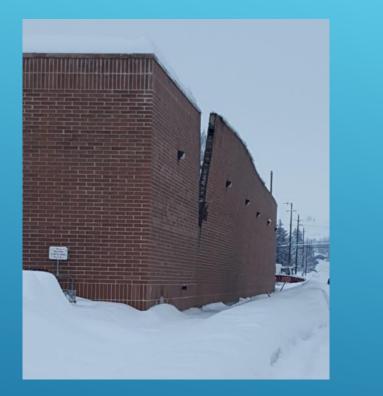
Asbestos, when in a dry form which can be crumbled into dust is called "FRIABLE".

Friable asbestos is dangerous when it is in the air and you breathe



#### EPA REGULATES: PLANNED DEMOLITIONS







#### STRUCTURALLY UNSOUND BUILDINGS - SURVEY & ABATEMENT WAIVED



#### EPA'S REGULATIONS – THE WAY IT SHOULD WORK

- For <u>Renovations</u> and <u>Demolitions</u>:
  - Survey
  - Notification
  - Keeping It Wet
  - Handling It Carefully
  - Storing Waste
  - Transporting It
  - Disposing It
  - Confirming Disposal



#### ASBESTOS SURVEYS

An inspection must be conducted by the building owner or operator <u>before</u> a demolition or renovation begins.

Inspector certification required

- The AHERA "Asbestos Building Inspector" Certification.
- > 24 Hour Course, Annual Refresher



#### NOTIFICATION DETAILS

- Project Location
- Building Description
- How Much Asbestos is There?
- Starting/Ending Dates?
- Contractor Name
- > Waste Hauler
- Landfill Location





# KEEP WASTE "ADEQUATELY WET" AT ALL TIMES.





#### BAD: WORKERS LETTING WASTE FALL TO GROUND

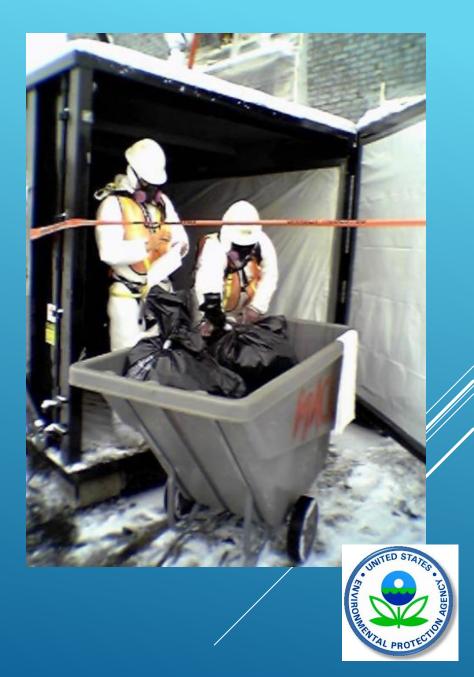




#### LOWER WASTE TO THE GROUND - DO NOT DROP IT.



#### SEAL WASTE BAGS BEFORE BRINGING THEM OUTSIDE THE WORK AREA.



#### BAD: WASTE NOT CONTAINED







#### "GLOVE BAGS" ARE LEAK TIGHT CONTAINERS FOR REMOVING PIPE INSULATION







## THESE "SUPER SACK" CONTAINERS ARE COMMON.



# TRANSPORTING ASBESTOS WASTES No dust should be visible.

Wastes should be kept wet at all times.





### AVOID BREAKING ASBESTOS MATERIALS



### QUESTIONS?

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www.epa.gov/asbestos





 Kaylie Holland, kaylie.holland@alaska.gov
 Alaska Department of Environmental Conservation Solid Waste
 907-269-7622

#### ASBESTOS CONTAMINATION AND REMEDIATION



#### STATE REGULATIONS

- Alaska Occupational Safety and Health (AKOSH)
  - Performs regulatory compliance and enforcement
- Alaska Department of Environmental Conservation
  - Disposal



#### DEFINITIONS

- Friable ACM (RACM)
  - Regulated asbestos containing material
- Non-friable ACM (non-RACM)
  - Non-regulated asbestos containing material
  - Category I and Category II





- May only be disposed of in Class I or II landfills or monofills permitted to accept it.
- One-time asbestos monofills
- Most rural village landfills are NOT permitted to accept asbestos.

#### DISPOSAL OPTIONS





#### DISPOSAL AT LANDFILLS

- Landfill operator is required to verify each load of RACM is properly packaged and labeled
- Signed waste shipment manifest



#### DISPOSAL AT LANDFILLS

- Access to RACM disposal areas must be restricted
- Both RACM and non-RACM must be handled and managed carefully
- Both RACM and non-RACM must be covered promptly

