ALL ABOUT ASBESTOS: REGULATION REQUIREMENTS, HANDLING, AND DISPOSAL

Breanna Mahoney: DEC Brownfields Team 907-269-7503 John Pavitt , US EPA, Region 10, 907-271-3688 Kaylie Holland, DEC Solid Waste, 907-269-7622

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 :

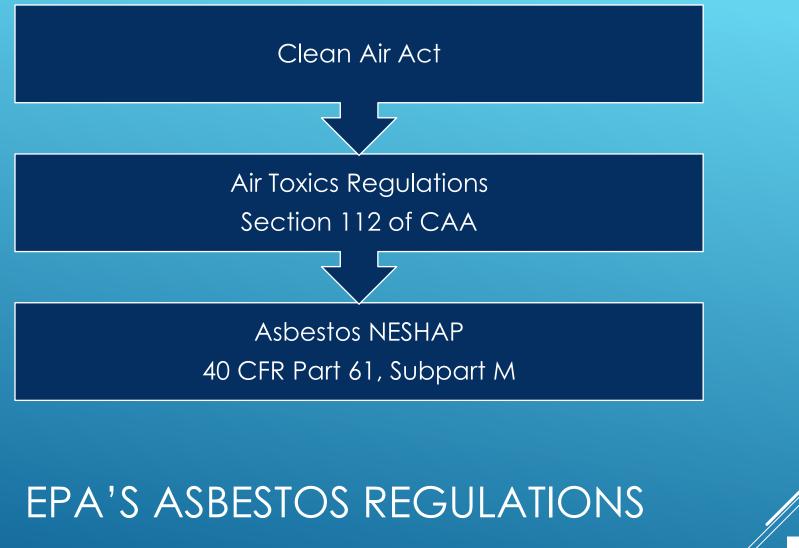
Link to EPA Contacts and NESHAP Regulations

► John Pavitt

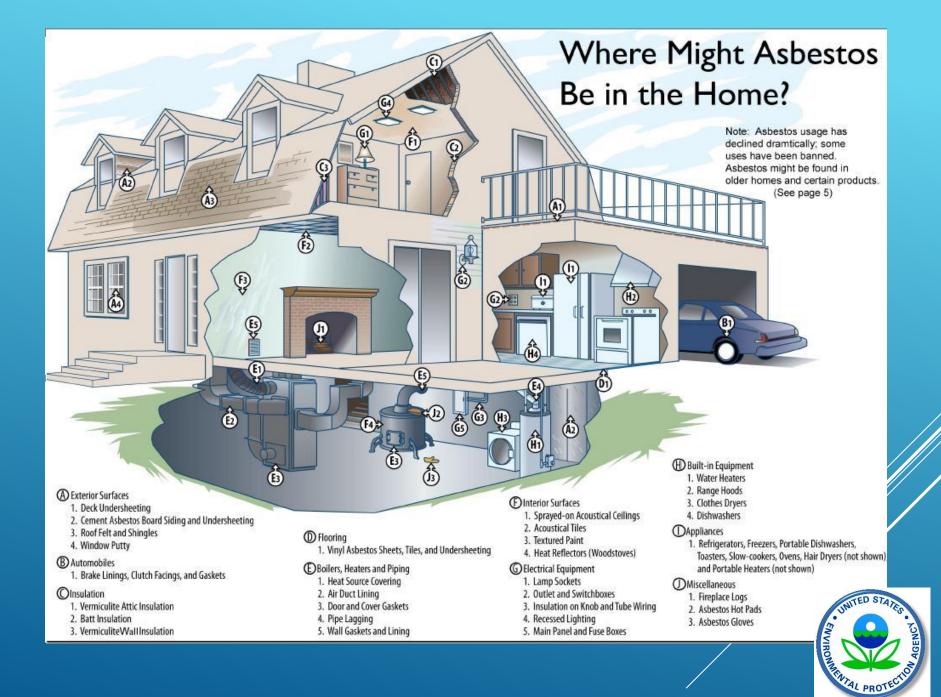
- ► US EPA, Region 10
- Alaska Operations Office
- ▶(907)271-3688
- ▶pavitt.john@epa.gov

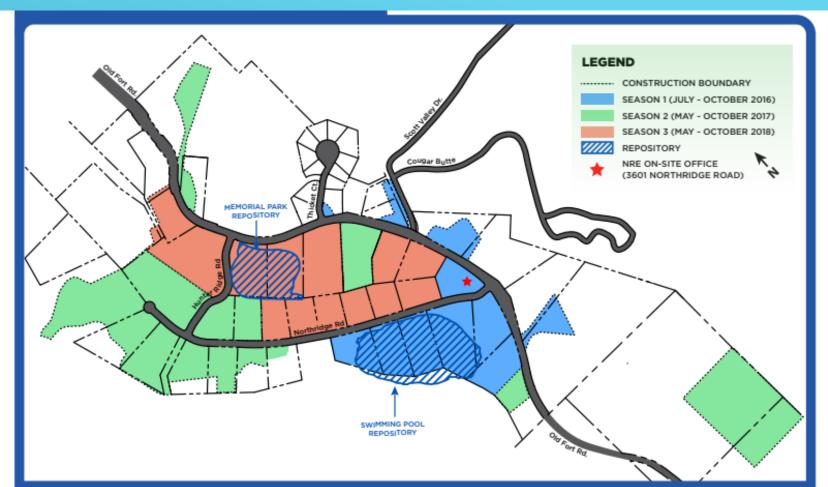
ASBESTOS CONTAMINATION AND REMEDIATION











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**.

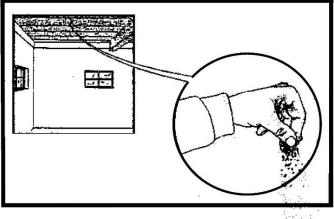




EPA REGULATES: RENOVATIONS W/ "FRIABLE" ASBESTOS







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?

John Pavitt EPA Region 10, Alaska Operations Office (907) 271-3688

Pavitt.john@epa.gov

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

