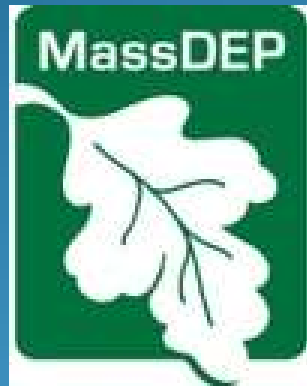


Waste Ban Webinar for Municipal Transfer Station Operators



John Fischer
July 20, 2022



Who is this meeting for?

- Primarily municipal transfer station operators
- Will cover Waste Ban Compliance Plan Requirements and Guidance

What are the “waste bans” ?

- Waste ban regulations restrict the disposal, or transfer for disposal, of certain hazardous and recyclable materials at solid waste facilities in Massachusetts
- Started in 1991
- 310 CMR 19.017(3)(a): “No person shall dispose, transfer for disposal, or contract for disposal or transport of the restricted material...”

Waste Ban Goals

- Drive investment, infrastructure growth and job creation by ensuring consistent material supply
- Reduce disposal and conserve limited disposal capacity
- Assist in meeting the Solid Waste Master Plan waste reduction goals

Who do the waste bans apply to?

310 CMR 19.017(3)(a): “No person shall dispose, transfer for disposal, or contract for disposal or transport /of the restricted material...”

- **Permitted Facilities**
- **Haulers**
- **Generators**

New Banned Materials

- Mattresses
- Textiles
- Food Waste from Businesses > ½ ton per week (currently 1 ton per week)
- New bans effective November 1, 2022

Waste Ban Plan Requirements

- Revised plans must be prepared by August 1, 2022
- Transfer stations (other than C&D transfer stations) do not need to submit plan to MassDEP
 - But must prepare revised plan and make available to MassDEP upon request
- Only need to submit certification form – to regional solid waste section chief
- Landfills – generally should submit SW45 form
- MassDEP oversees facility compliance with waste ban compliance plan and issues enforcement for violations

Major Components of Plan

- Ongoing Monitoring
- Comprehensive Inspections
- Record Keeping
- Response to Failed Loads
 - Communication
 - Failed Load Disposition
- Training & Signage

Ongoing Monitoring

- Monitoring of all loads received at the facility
- Use MassDEP ongoing monitoring loads sheet or comparable alternative to document failed loads
- Record all applicable information on any failed load and how managed
- See Attachment A in Waste Ban Guidance

Comprehensive Inspections

- If ONLY accept loads of 5 cy or less, then no requirement
- 1-99 TPD - 4 vehicles (>5 cy)/month
- Select randomly
- More detailed, careful load inspection
- See Attachment B – one sheet/comprehensive inspection
- If >50 TPD, must have dedicated staff person for load monitoring, inspections, and record keeping

Failed Load Determinations

- Zero Tolerance Items
 - CRTs
 - Lead acid vehicle batteries
 - Mattresses
 - Tires (can go to municipal waste combustor)
 - White goods



Materials with Action Levels

- Regulations have no action levels or acceptable disposal amounts
- Action levels only for implementation purposes at solid waste facilities
- On basis of estimated volume

Action Levels

- Glass, metal and plastic containers – 10%
- Recyclable paper – 10%
- Leaves and yard waste – 10% or 10 bags
- Commercial organic material – 10%
- Textiles – 10%
- Asphalt pavement, brick, concrete, gypsum wallboard, metal, and wood – 20% combined
 - wood can go to municipal waste combustor
- All materials combined – 30%

<5 CY Vehicle Exemption

- If ONLY accept loads < 5 cy, may consolidate loads with ABC, wallboard, metal and wood and send for disposal (not other materials)

Record Keeping

- Documentation of ongoing monitoring and comprehensive inspections
- Use forms in guidance or comparable alternatives
- Should be in electronic format provided upon request to MassDEP

Response to Failed Loads

- Communication
 - Notify driver of failed load
 - Send letter to hauler within 45 days
 - Send letter to generator within 45 days (if known)

Response to Failed Loads

- Failed Load Disposition
- Possible options, depending on banned materials and specific loads, include:
 - Reject or reload
 - Accept load – separate and divert banned materials
 - Transfer load to another facility
 - Accept for disposal as last resort when none of the above options are viable
- Use Table 3. Materials Management to guide decisions

By Material Category

- Zero tolerance items should not be accepted and disposed - except for:
 - Tires can go to municipal waste combustors
 - Mattresses too badly contaminated to go to mattress recycler
- C&D materials loads – should be transferred or directed to C&D handling facility – unless < 5 cy load exemption applies

Training & Signage

- Annual training of facility personnel
- Including ongoing monitoring, comprehensive inspections and record keeping
- Specific to your facility's waste ban compliance plan
- Signage – suggested sign language in Attachment F

Information on New Waste Ban Materials

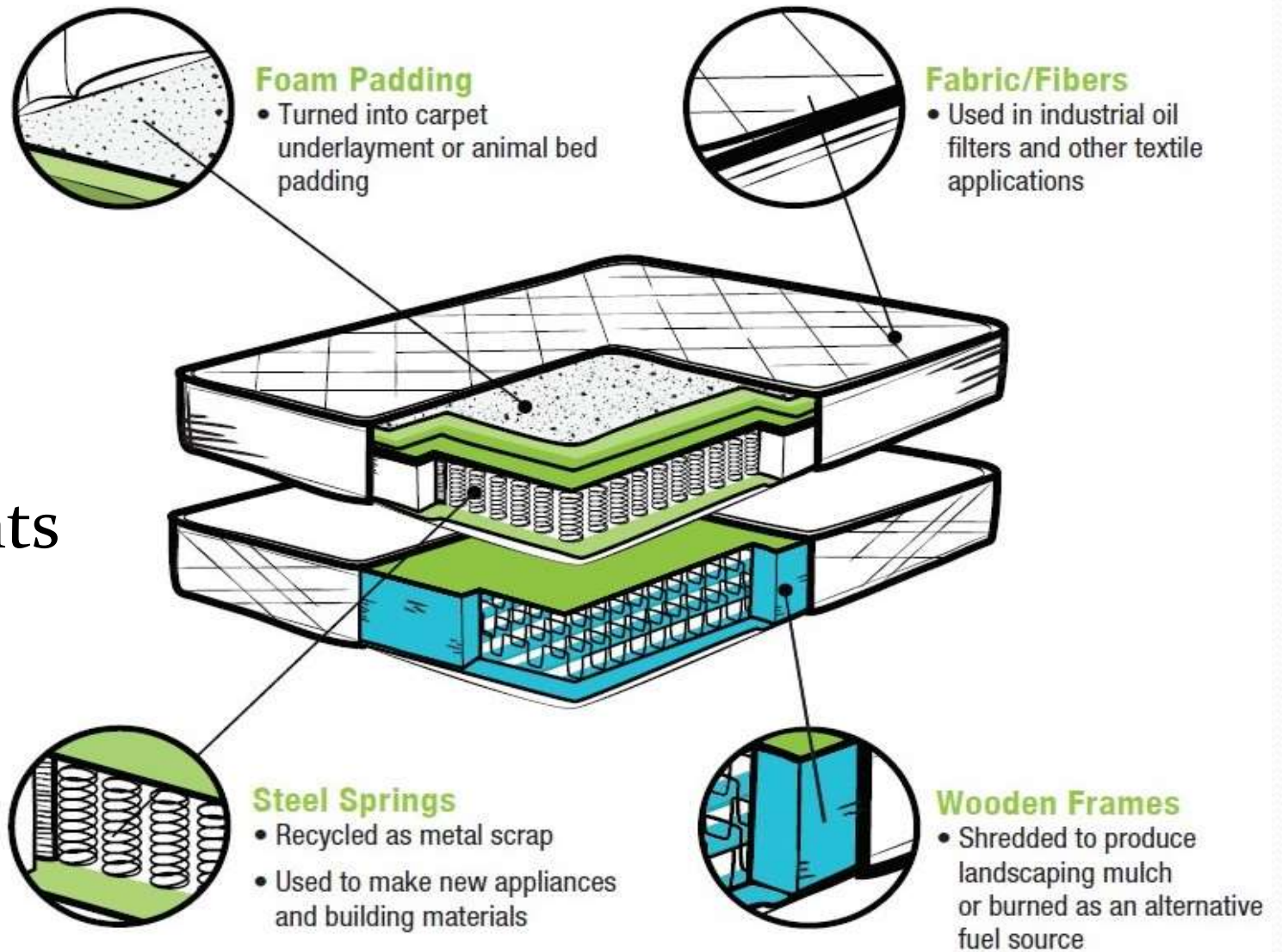


Mattress Waste Ban

- Mattress or box spring – all sizes
- Includes foam and latex mattresses
- Excludes futons, sofa beds, air mattresses

Why Mattresses?

More than
75% of a
mattress's
components
can be
recycled.



Contaminated Mattresses

- Excludes mattresses contaminated with mold, bodily fluids, insects, oil, hazardous substances
 - Very small percentage of collected mattresses
 - Must be stored so that not contaminated – otherwise considered waste ban violation
 - Grinding mattress to recover metal and wood not compliant (unless contaminated)
- If need to dispose of contaminated mattresses, should track and document quantities, contamination, how managed

Available Infrastructure & Outlets – Mattresses

- <https://www.mass.gov/service-details/mattress-recycling>
- FAC90 State Contract
- www.recyclingworksma.com
- <https://www.mass.gov/doc/mattress-waste-disposal-ban-recycling-guidance-for-municipalities/download>

Mattress Collection Options

- Curbside collection – hauler
- Curbside collection – municipal staff
- Curbside collection – with bulky waste
- Curbside collection – with white goods
- Residential direct service with “preferred vendor”
- Do not collect – private collection only



Mattress Collection Options

- Municipal drop-off center
- Regional collection center – multiple municipalities
- Regional milk run collection
- One-day collection event – drop-off

Textiles Waste Ban

- “clothing, footwear, bedding, towels, curtains, fabric, and similar products, except for textiles that are contaminated with mold, bodily fluids, insects, oil, or hazardous substances.”
- Wiping clothes or shop rags not subject to bans
- Textile recovery organization or generator can request waiver for material that is not contaminated, but unrecoverable

Available Infrastructure & Outlets – Textiles

- Beyond the Bin Recycling Directory
 - <https://recyclesearch.com/profile/ma>
- www.recyclingworksma.com
- Textile Collection Options
 - Municipal drop off centers
 - Promote charity and private drop off boxes
 - Private/charity collection programs
 - Separate curbside collection

Food Waste Ban

- Currently business or institution that generates >1 ton or more per week
- Beginning November will be > ½ ton per week
- Common Q&A
 - Does not count residential – e.g. apartment building
 - Does count residential food service – e.g., assisted living with dining room (similar for college dorms)
 - Chains and schools are counted per location
- To comply must dispose of < threshold amount

Businesses Subject to Reduced Threshold

- Restaurants
- Smaller grocery stores
- Large public schools
- Businesses that need to achieve further reductions
- Also opportunities to serve smaller businesses below threshold or residents
- To estimate food waste by business sector:
 - <https://recyclingworksma.com/food-waste-estimation-guide/>

Estimating Food Waste - Restaurants

	Average Measurement		Material
Meals Served [Full-Service]	1	lbs/meal	Food Waste
Meals Served [Limited-Service]	0.5	lbs/meal	Food Waste
Employees [Full-Service]	3,000	lbs/employee/year	Food Waste
Employees [Limited-Service]	2,200	lbs/employee/year	Food Waste
Disposed Waste ¹ [Full-Service]	66	% of disposed waste by weight	Food Waste
Disposed Waste ¹ [Limited-Service]	51	% of disposed waste by weight	Food Waste

Available Infrastructure & Outlets – Food Waste

- Many ways to comply:
 - Prevention/reduction,
 - Donation/rescue,
 - On-site systems,
 - Haul off site to anaerobic digestion, composting, intermediate processing or animal feed
- www.recyclingworksma.com
- <https://www.mass.gov/doc/map-list-of-massachusetts-sites-accepting-diverted-food-material-april-2022/download>

Businesses Diverting Food Waste

Year	# Businesses Diverting
2014	1,350
2015	1,550
2016	1,700
2017	2,250
2018	2,600
2019	3,250
2020	3,200
2021	3,500

For More Information

- MassDEP Waste Ban Guidance
 - <https://www.mass.gov/guides/massdep-waste-disposal-bans#-solid-waste-facility-compliance-assistance->
- Transfer Station Certification Form
 - <https://www.mass.gov/doc/certification-transfer-station-operation-0/download>
 - <https://www.mass.gov/lists/massdep-solid-waste-forms#facility-construction,-operation-&-reporting->
- john.fischer@mass.gov
- Solid Waste Section Chiefs
 - Central Region: Jim McQuade, 508-767-2759 james.mcquade@mass.gov
 - Northeast Region: Mark Fairbrother, 978-694-3298 mark.fairbrother@mass.gov
 - Southeast Region: Mark Dakers, 508-946-2847 mark.dakers@state.ma.us
 - Western Region: Dan Hall, 413-755-2212 daniel.hall@mass.gov