### Removing the Handle from the PFAS Pump: An Upstream Approach to Industrial PFAS Source Reduction

Tiffany Skogstrom, MPH
Massachusetts Office of Technical Assistance

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### MA Toxics Use Reduction Act (TURA) of 1989



#### Who reports?



- Operate under certain Standard
   Industrial Classification (SIC) codes
- Have >10 employees
- Manufacture or process ≥25,000lbs (or otherwise use ≥10,000lbs)
   of listed substances

Covers a little over 400 MA facilities



- Report to the state
- Pay a fee
- Create a Toxics Use Reduction Plan every two years

TURA does not prohibit companies from using listed chemicals.

### TURA Program Implementation

#### The TURA Program is co-implemented by:

- The Massachusetts Department of Environmental Protection
- The Toxics Use Reduction Institute at UMass Lowell
- The Massachusetts Office of Technical Assistance

#### Dogu

Regulatory

**MassDEP** 

#### **OTA**

Confidential Technical Assistance

#### **TURI**

Research & Grants

### Office of Technical Assistance (OTA)

- Non-regulatory agency
- Provides free, confidential technical and compliance assistance to MA businesses that use toxic substances
- Gives concrete recommendations for toxics reduction and resource conservation

OTA has conducted 3,500 site visits at 1,500 facilities, reducing **millions of pounds** of toxic chemicals and **millions of dollars** in operating costs.

### TURA Governing Bodies





Managed by TURI
Appointed by Governor
Recommends chemicals



# **Advisory Committee**

Appointed by Secretary Multi-sector policy input



# Administrative Council

Chaired by Secretary or designee

TURA governing body

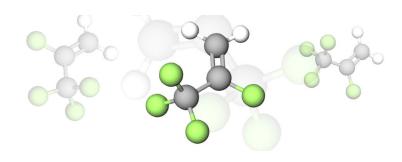
## PFAS Tracking and Reporting Under TURA

	TURA tracking starting:	Report to DEP:	Reportable:	Threshold:
Certain PFAS Not Otherwise Listed ("NOL")	January 1, 2022	July 1, 2023	As a category	25,000 lbs. manufactured/ processed; 10,000 lbs. otherwise used
172 TRI PFAS (2020)	January 1, 2021	July 1, 2022	appl	100 lbs. (de minimis exemption
Four TRI PFAS (2021) Four TRI PFAS (2022)	January 1, 2023	July 1, 2024		
Nine TRI PFAS (2023)	Anticipated January 1, 2024	Anticipated July 1, 2025		applies; see <u>MassDEP</u> <u>website</u> for details)

### Industrial Uses



Polymers and resins; low-friction coatings



Refrigerants (HFOs, HFCs)



Processing aids



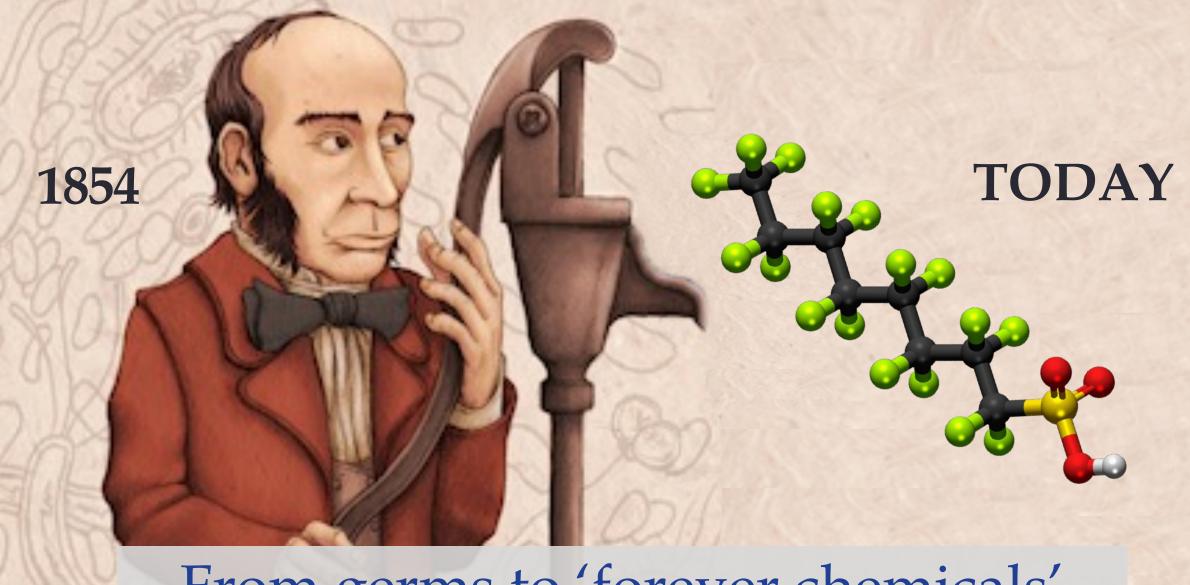
Fire suppression (AFFF)



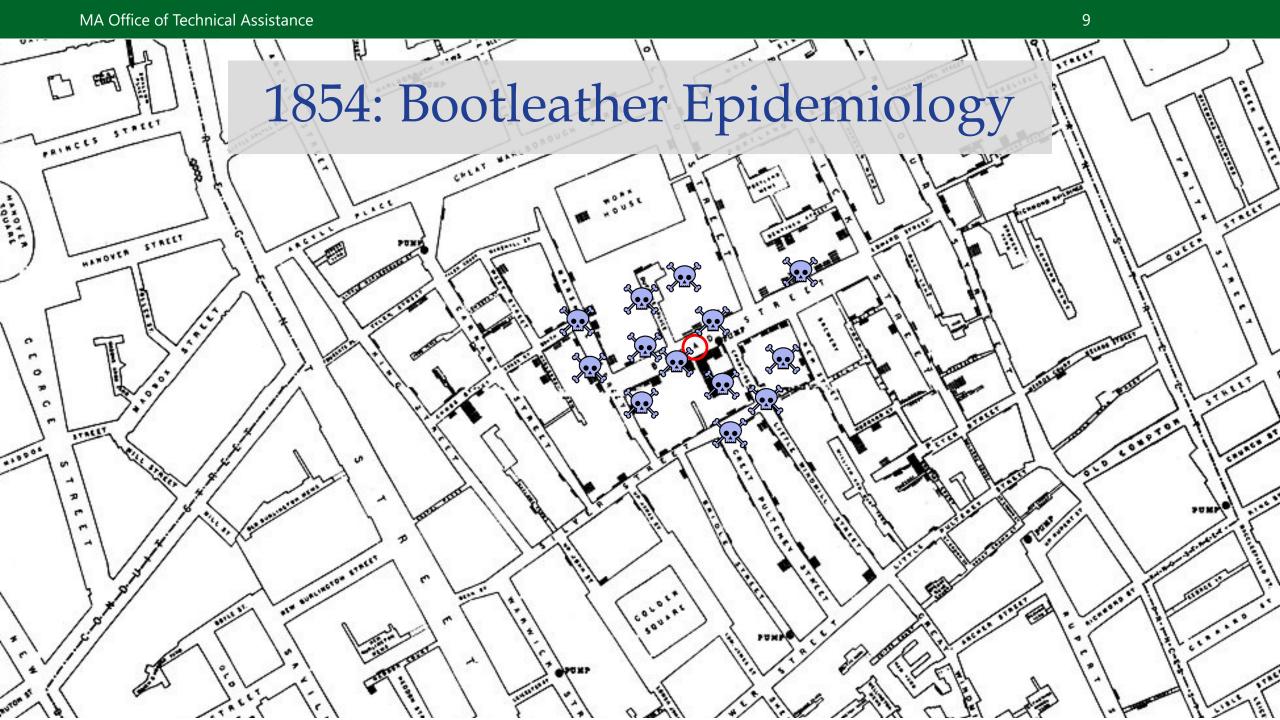
Metal finishing



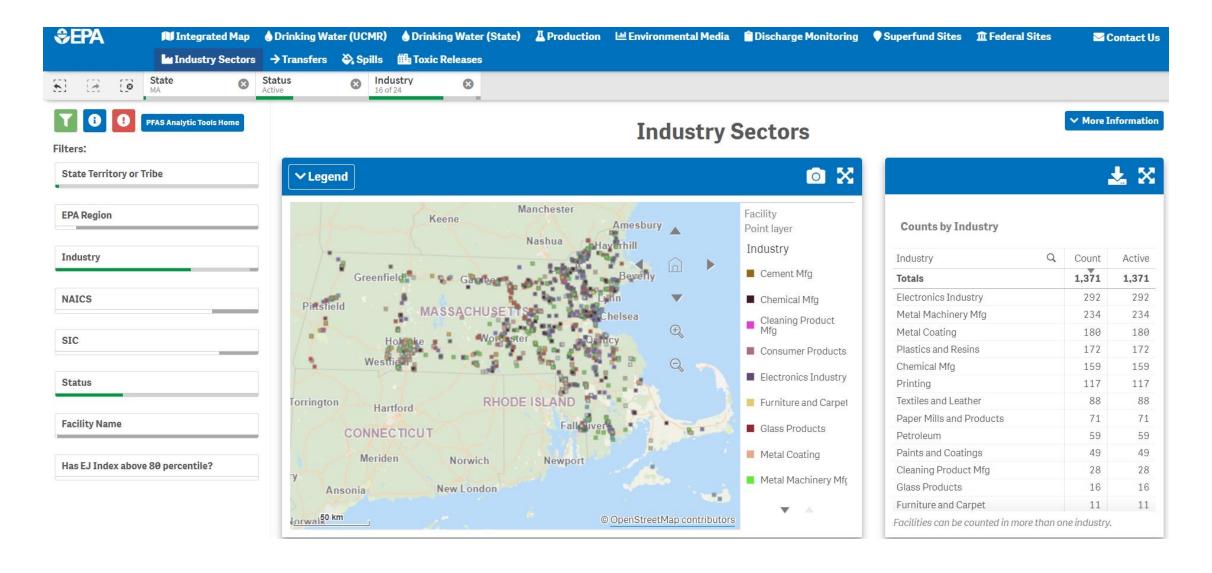
Recycled plastics & paper



From germs to 'forever chemicals'



### Boots on the Ground



# Identifying Massachusetts Manufacturers

Industry
Plastics Materials & Synthetic Resins
Metal Coating & Allied Services
Manufacturing Industries
Coated Fabrics, Not Rubberized
Petroleum Products

NAICS Code	Industry
322220	Paper Bag & Coated & Treated Paper Manufacturing
334419	Other Electronic Component Manufacturing
335999	All Other Miscellaneous Electrical Equipment & Component Manufacturing
335929	Other Communication & Energy Wire Manufacturing

### Identifying Massachusetts Manufacturers



Are they manufacturing in MA?



Does the process qualify as non-stick coating, waterproofing, etc.?

### Obstacles for Companies

#### Lack of company awareness

PFAS not listed on SDS Confidential Business Information (CBI) Tainted incoming feedstock

#### Regrettable substitution

'Shorter-chain' is still a 'forever chemical'

#### Fear of liability

Other PFAS sources = misplaced liability

Lack of regulation / Confusing regulations

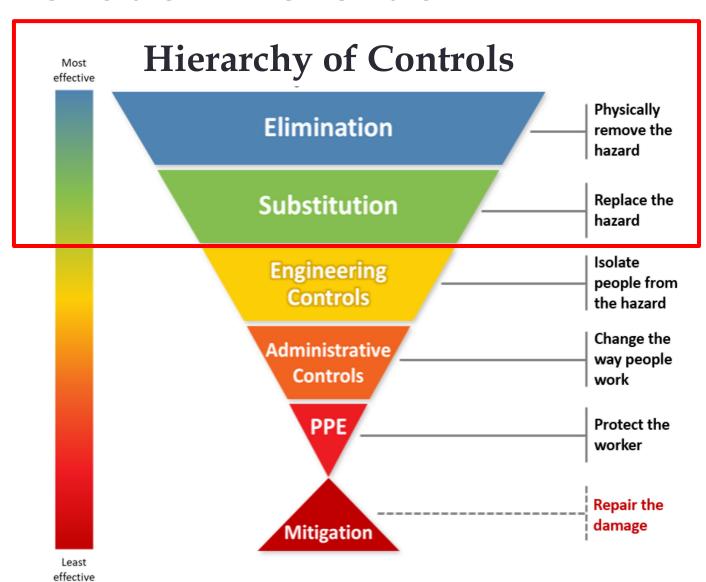
### Source Reduction and Pollution Prevention

# Source reduction, or pollution prevention:

The reduction, elimination, or prevention of pollution at its source.

Results in less waste to control, treat, or dispose of

Reduces hazard posed to public health and the environment



### Helping Companies Identify PFAS Sources

Look for common uses of PFAS

Check available CAS numbers against reportable definition

Send a notification letter to your chemical or product supplier

Contribute to developing product list

- Common uses include textile coatings (e.g., water-repellency), surfactants, degreasing (e.g., solvents), metal finishing (e.g., fume suppressants), polymers and resins, and AFFF
- Check your SDSs for products likely to contain PFAS
- Note listings described as Confidential Business Information (CBI) or proprietary as items of concern – contact your supplier or <u>OTA</u> for help
- Review <u>draft TURA guidance</u> and use reportable definition to check CAS # against <u>existing databases</u>
- Paper and metal finishing industries, contact OTA to take survey
- If no CAS numbers are available for fluorinated compounds, contact your supplier or <u>OTA</u> for technical assistance
- Use <u>OTA's template</u> to notify your supplier
- Involve your purchasing department in this effort
- Keep records to demonstrate good faith effort
- The TURA program is developing a list of products confirmed to contain PFAS
- If your supplier notifies you of products containing PFAS, please share this information with OTA/TURI

### PFAS Identification: Supplier Notification Letter

OTA has developed a supplier notification letter (template in handouts) that companies can use to request information from their suppliers about PFAS reportable under TRI and TURA.

TRI Listed

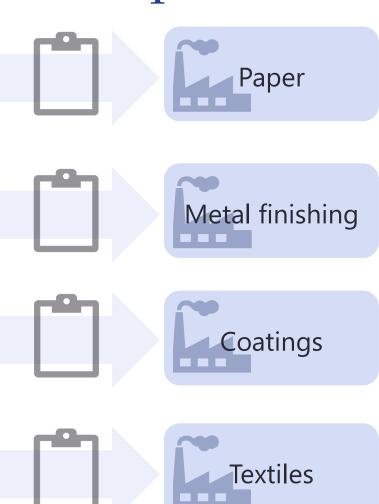
Legal
Obligation to
Disclose

**TURA Listed** 

No Legal Obligation to Disclose

## Resources for Companies: PFAS Identification

Assessments to identify PFAS sources (in development)



- OTA technical staff flag likely sources of PFAS
  - Companies may share list of CAS numbers with OTA
- OTA and TURI pursue research on products of concern
- Companies may opt to share product information with OTA to populate a list of PFAS-containing products

## Resources for Companies: PFAS Identification

- General resources
- Supplier notification
- OTA site visits

Recipient Name
Supplier Business Name
Address Line 1
Address Line 2
City, State ZIP

Account #: 00000000

RE: PFAS Supplier Notification Requirements under the Massachusetts Toxics Use Reduction Act (TURA) and the Toxics Release Inventory (TRI)

Dear Name,

Company Name (account #: 00000000) requests your cooperation and assistance to comply with new chemical listings under the Massachusetts Toxics Use Reduction Act (TURA) and the federal Emergency Planning and Community Right-to-Know Act (EPCRA).



### Why Referrals Work Better than Cold Calls

"Office of What?" (You have a relationship - they don't know OTA)

Mistrust of Government Agencies

Shifting Regulatory Landscape – PFAS is a lot to keep track of

Context of Interactions – OTA is non-regulatory - we can help bring them into compliance

### Referrals

You introduce OTA to manufacturer OTA follows up with manufacturer

Manufacturer gets free & confidential assistance

## Removing the Handle from the PFAS Pump

#### Phase 1

Set up a meeting with OTA to discuss outreach strategies

Provide OTA with a contact list of SIUs within TURA SIC codes

Contact SIUs regarding PFAS-source reduction efforts & informing them that OTA will be in touch with them

#### Phase 2

OTA contacts SIUs for follow up, offering:

- Metal Finishing Survey
- Paper Industry Survey
- General PFAS Source Reduction strategies

OTA conducts free & confidential site visits

OTA tracks any notable reductions while maintaining confidentiality

### Creating Opportunities to Remove the Handle

- Include OTA information in any general communications / newsletters with your SIUs
- Use NPDES permit renewal notification / PFAS regulatory updates as an opportunity to encourage manufacturers to utilize OTA as a free resource
- Invite OTA to present to your SIUs at an event and meet & greet
- Co-host a webinar with OTA for your SIUs, keeping them informed of everything that they need to know about PFAS
- Remember that companies are interested in PFAS source reduction, too. Keep talking with them.
- Your ideas?

# Preventing Chemicals from Reaching Your Facility

OTA's **free, confidential** services can assist and encourage manufacturers to incorporate toxics use reduction, thereby decreasing chemical releases, by offering the following services:

Accepting referrals to toxics users

Identifying users of PFAS, or other chemicals, within your community

Engaging with manufacturers within your community

An upstream effort between the TURA Program and other agencies, like yours can help reduce the amount of chemicals that reach your community.

### Contact Us

Tiffany Skogstrom, MPH *Director* 

tiffany.skogstrom@mass.gov

Website: mass.gov/ota

Sign up for OTA's newsletter:



