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#### **VARNUM**

#### Disclaimer:

I'm just an attorney

But I'm a litigation attorney...



#### Why does this matter?

- Liability
- Are you thinking beyond just permit requirements?
- Good corporate governance
- The "Green Guides" deceptive
  - "non-toxic"
  - "PFAS free"

#### Claims

 Nuisance – "a substantial interference with the use and enjoyment of property"

Public Nuisance

Part 201

CERCLA? / RCRA?

# State of Minnesota lawsuit (\$850 million settlement)

 Fluorine is buried deep in the rocks beneath the earth and is amongst one of the most dangerous elements that exist

It was called the "Devil's Poison"

#### Fluorochemicals

Bond between fluorine and carbon

One of the strongest bonds that exists

Can withstand temperatures up to 1,700 degrees.

"Forever chemicals"

#### **PFAS**

- Per- and Polyfluoroalkyl Substances
  - PFOS
  - PFOA
  - Over 9,000 different synthetic chemicals

## Getting into the Environment

- Not the goal (of course)
- Production
- Waste streams
  - Solid waste
  - Liquid discharge
  - Biosolids
  - Air

# Toilet paper?



## What's the big deal?

- Reproduction
- Thyroid function
- Immune system
- Injure the liver

More fundamentally, it's a man-made chemical in the environment.

#### Dangerous combination

- Gets into environment
- Doesn't break down
- Bioaccumulates (animals and humans)
- Possible health effects



## Increasing regulation

The more we know, the lower the limits.

Federal regulation increasing

More mediums

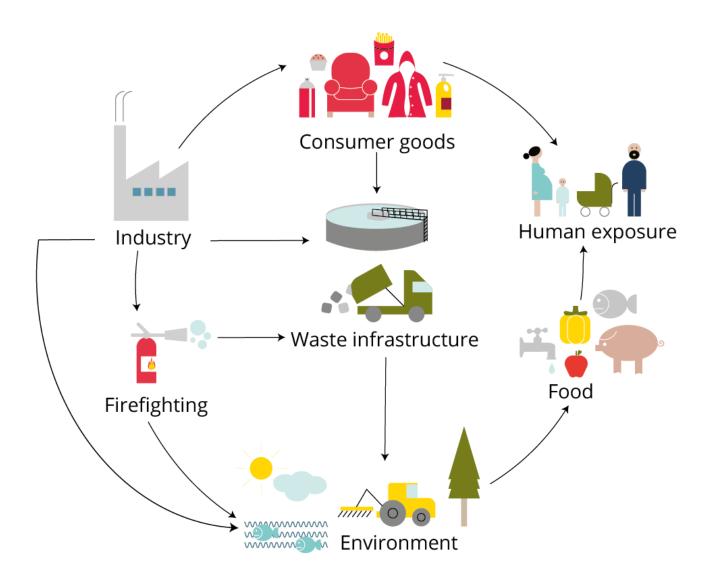
#### EPA proposed rule

- National Primary Drinking Water Regulation (six PFAS)
- Maximum Contaminant Level
  - PFOS 4 ppt
  - PFOA 4 ppt
- Maximum Contaminant Level Goals "health based"
  - PFOS 0
  - PFOA 0

## CERCLA Hazardous Substance proposal

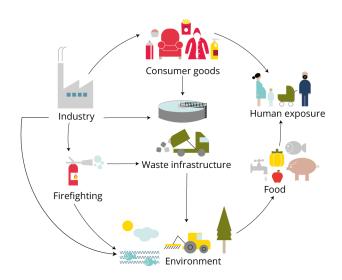
Potential timeline of late 2023 (subject to change)





## Industry to:

- Consumer Goods
- Waste (liquid and solids)
- Firefighting foam
- To the environment



## Contributing, but Not Reducing



#### Real consequences: the Grostics

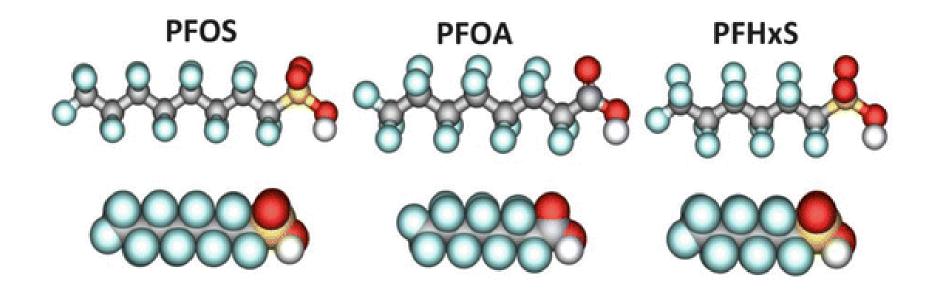
- Centennial farm
  - Jason, Teresa, and their two young kids.

Organic beef (Grostic Cattle LLC)

Crops (approximately 300 plantable acres)

## How did it get there? From the beginning...

PFAS is manufactured



#### PFAS is then sold to chemical maker



#### MacDermid Enthone makes Macuplex STR

Mist suppressant to keep fumes out of the air.

#### Chemical manufacturer sells to industry

 Tribar Manufacturing (formerly Adept Plastics) purchases Macuplex STR.

Put into chrome baths from 2010-2015

#### Tribar has industrial waste

Discharged to the City of Wixom Sewer pursuant to IPP

Contained PFAS

## City of Wixom treats waste

(1) Discharged to Huron River (containing PFAS)

• (2) Biosolids land applied (containing PFAS)



## Biosolids (with PFAS) applied to the Grostics' farm

- 2010-2015: 12,991,000 gallons on 234 acres
  - (55,500 gallons / acre)

## The Grostics grow crops

The crops (with PFAS) are eaten by cattle



The crops (with PFAS) are sold to a grain elevator

So what's the problem?

# Beef and crops are consumed



## Waste is sent to a septic tank or a sewer



## And high levels of PFAS is now in the soil



#### Grostics' centennial farm ruined



#### How did it start?

February 2018: Industrial Pretreatment Program PFAS initiative

June 2018: City of Wixom conducted sampling.

Identified Tribar Manufacturing as the source of the contamination

#### Grostics (cont'd)

EGLE samples the Grostics' farm fields and groundwater.

Eventually, beef is sampled.

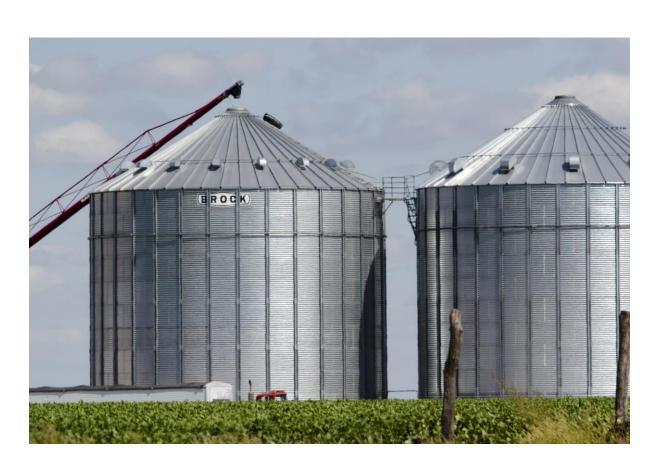
#### Beef testing results:

State of Michigan: "atypically high"

- 1/27/2022 -- Seizure order
  - Continues to this day.
  - Grostics required to care for the cattle, but can't sell

# What about the cash crops?

Grain elevator won't buy.



#### Possible to remediate?

- Technically feasible.
- Practically? Over \$100 million.

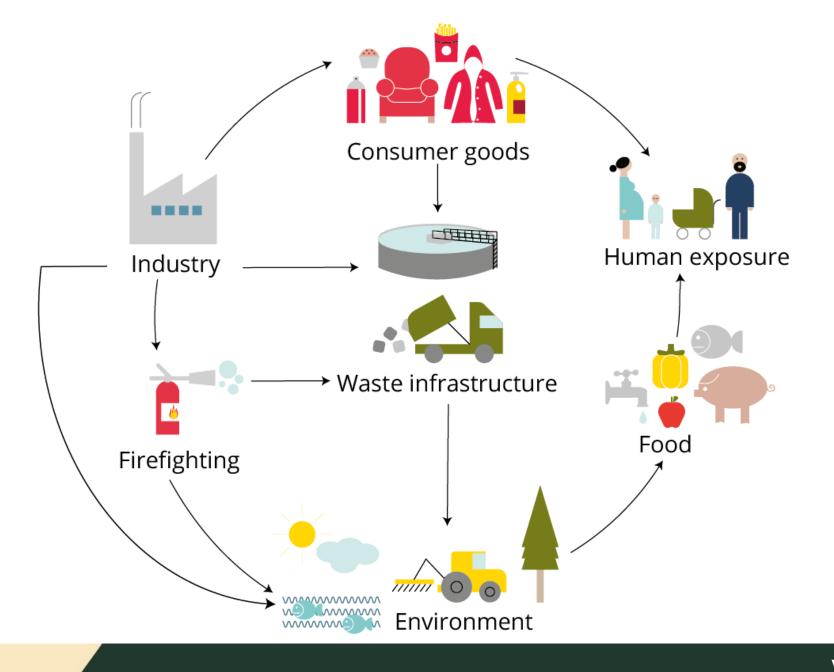
#### The Grostics now:

- Going broke
- Had to auction farm equipment
- Can't use their land
- Lost their "way of life"
- Stress is enormous

# Lawsuit against Tribar.

TBD how it ends.

The Grostics are unique, but not really



#### Thanks!

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