Legislative Action for Vermont

An Act Regulating Certain Chemicals and Chemical Classes

Public Health and Safety
Environmental Protection

PFAS- the "Forever Chemicals", so called because:

- Bonds do not dissolve in water or break down easily
 - PFAS travel through water, soil and air
- PFAS accumulate and persist in the environment and in the organisms exposed to contaminated food and water
- Many PFAS are difficult if not impossible to filter, capture and contain

In humans and animals, they are responsible for severe health problems, including:

- Cancers- Liver, Kidney and Testicular
 - Hormone disruption leading to

reproductive problems birth defects developmental delays

diabetes obesity high cholesterol

vaccine resistance









There are nearly 15,000 individual PFAS chemicals

The Vermont Drinking Water Standard of 20 ppt is limited to only 5.

4 of the 5 are LONG-CHAIN molecules, proven to harm human health, but also, being larger, can be more easily filtered.

SHORT-CHAIN PFAS,

now known to be as or more harmful, can escape filtration:

"Short-chain PFASs have a high mobility in soil and water.... This results in a fast distribution to water resources, and consequently, also to a contamination of drinking water resources. Once emitted, short-chain PFASs remain in the environment. "https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5834591/

PFAS Precursors are also likely to escape filtration and transform into PFOA and PFOS in the environment. David Burns, lead scientist EPOC Enviro, SAFF creators:

"Of course, there is no suggestion that the treated landfill leachate should be used directly as potable water or allowed to discharge or otherwise migrate into receiving waters reserved for drinking water."

https://onlinelibrary.wiley.com/doi/10.1002/rem.21720?af=R

