Introduced by Senators Bray, Balint, Campion, and MacDonald

Referred to Committee on

Date:

Subject: Conservation and development; environmental health; water supply; water quality; polyfluoroalkyl substances

Statement of purpose of bill as introduced: This bill proposes to adopt a maximum contaminant level for polyfluoroalkyl substances under the Agency of Natural Resources’s Water Supply Rule. The bill would require the Secretary of Natural Resources to amend the Vermont Quality Standards to include criteria or effluent limitations for polyfluoroalkyl substances. The bill would also require landfills to treat leachate for polyfluoroalkyl substances prior to delivery to a wastewater treatment facility or other facility where the leachate would be discharged to the waters of the State.

An act relating to the regulation of polyfluoroalkyl substances in drinking and surface waters
It is hereby enacted by the General Assembly of the State of Vermont:

Sec. 1. FINDINGS

The General Assembly finds that:

(1) Perfluoroalkyl, polyfluoroalkyl substances (PFAS), and other perfluorochemicals are a large group of human-made chemicals that have been used in industry and consumer products worldwide since the 1950s.

(2) PFAS may enter the environment when emitted during a manufacturing process, from the disposal of goods containing PFAS, or from leachate from landfills.

(3) Many PFAS do not break down and persist in the environment for a very long time, especially in water, and, consequently, PFAS can be found in many bodies of water and in the blood of humans and wildlife.

(4) More research is needed to determine the health effects to humans from exposure to low levels of environmental exposure to PFAS, but some studies in people have shown that certain PFAS may affect infant weight, affect human growth, affect the learning and behavior of babies and older children, lower a woman’s chance of getting pregnant, interfere with the body’s natural hormones, increase cholesterol levels, affect the immune system, and increase the risk of cancer.

(5) The Vermont Department of Health has adopted a health advisory level for certain PFAS of 20 parts per trillion.
(6) The Vermont Water Supply Rule provides that the Secretary of Natural Resources may adopt a Vermont Department of Health advisory level as a maximum contaminant level for a substance.

(7) The Agency of Natural Resources (ANR) has adopted the 20 parts per trillion level as part of ANR’s Remediation of Contaminated Properties Rule and Groundwater Protection Rule and Strategy, but not as part of the Vermont Water Supply Rule or the Vermont Water Quality Standards.

(8) To adopt a precautionary approach to the regulation of PFAS, to prevent further contamination of State water, and to reduce the potential harmful effects of PFAS on human health and the environment, the State of Vermont should adopt:

(A) a maximum contaminant level for PFAS under the Vermont Water Supply Rule;

(B) water quality criteria or effluent limitations for PFAS under the Vermont Water Quality Standards that protect human health and aquatic biota; and

(C) standards for the treatment of landfill leachate prior to treatment in a wastewater treatment facility or other facility where the leachate would be discharged to State waters.
Sec. 2. DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WATER SUPPLY RULE; MAXIMUM CONTAMINANT LEVEL (MCL) FOR POLYFLUOROALKYL SUBSTANCES

Subchapter 21-6, Section 6.12, Table 6-1 of the Department of Environmental Conservation Water Supply Rule is amended to read:

<table>
<thead>
<tr>
<th>CONTAMINANT</th>
<th>STANDARD MCL</th>
<th>MCLG or Initial or MRDL as noted</th>
<th>MRDLG</th>
<th>Source (mg/l unless (as noted) otherwise noted)*</th>
<th>Testing Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyfluoroalkyl substances</td>
<td></td>
<td></td>
<td><strong>MCLG</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfluorooctanoic acid</td>
<td>20 parts per trillion—</td>
<td>---</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfluorooctanesulfonic acid</td>
<td>20 parts per trillion—</td>
<td>---</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfluorohexane sulfonic acid</td>
<td>20 parts per trillion—</td>
<td>---</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perfluoroheptanoic acid</td>
<td>20 parts per trillion—</td>
<td>---</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Perfluorononanoic acid

20 parts per trillion—

sum of all five PFAS

Sec. 3. DEPARTMENT OF ENVIRONMENTAL CONSERVATION

WATER SUPPLY RULE; MONITORING FOR

POLYFLUOROALKYL SUBSTANCES

Section 6.10a of Subchapter 21-6 of the Department of Environmental Conservation Water Supply Rule is added to read:

§ 6.10a. Polyfluoroalkyl Substances (PFAS) Monitoring Requirements

All public water systems shall conduct PFAS monitoring annually.

Sec. 4. VERMONT WATER QUALITY STANDARDS; WATER QUALITY CRITERIA; POLYFLUOROALKYL SUBSTANCES

On or before July 1, 2020, the Secretary of Natural Resources shall amend the Vermont Water Quality Standards to include water quality criteria or effluent limitations for the discharge of polyfluoroalkyl substances (PFAS) to

the surface waters of the State. The amendment to the Vermont Water Quality Standards shall, at a minimum, include criteria or effluent limitations for the following PFAS individually and in combination: perfluorooctanoic acid,

perfluorooctanesulfonic acid, perfluorohexane sulfonic acid,

perfluoroheptanoic acid, and perfluorononanoic acid. The amendment to the rule may address additional PFAS.
Sec. 5. 10 V.S.A. § 6605(d) is amended to read:

   (d) New landfills placed in operation after July 1987 shall be lined and shall collect and treat leachate. Except as provided in section 6614 of this title, or if, pursuant to information obtained through the pilot projects completed under subsection 6604(b) of this title or from other sources, the Secretary identifies particular waste components that will not be the source of leachate harmful to health or the environment, the Secretary may waive the requirements for liners in landfills or portions of landfills designated solely to receive these wastes. Solid waste shall be included among these waste components that will not be the source of harmful leachate, in situations where all of the following apply:

   (A) material to be landfilled has been subjected to a hazardous waste collection, diversion, and inspection program that removes at least 90 percent of the hazardous and toxic waste, including that classified as hazardous household waste and including that generated by small quantity generators;

   (B) material to be landfilled has had at least 90 percent of the compostable material and marketable recyclables removed by source separation or by a combination of source separation and mechanical separation;

   (C) the municipality in which the landfill or any portion of the landfill exists has permission of the facility operator to monitor landfill
operations during operating hours, by means of a person appointed or hired by

  town officials or elected by the voters of the municipality.

  (2) On an after January 1, 2020, a landfill shall treat collected leachate

for polyfluoroalkyl substances on-site or at an Agency-approved, off-site

facility prior to delivery to a wastewater treatment facility or other facility

from which the leachate would be discharged to waters of the State. As used

in this subdivision, “wastewater treatment facility” has the same meaning as in

section 1295 of this title.

Sec. 6. EFFECTIVE DATES

  (a) This section and Secs. 1 (findings), 2 (MCL for polyfluoroalkyl

substances), and 3 (monitoring of MCL for polyfluoroalkyl substances) shall

take effect on passage.

  (b) The remaining sections shall take effect on July 1, 2019.