

Important Information for all consumers receiving Drinking Water from our system. Translate it or speak with someone who understands it.
Información importante para todos los consumidores que reciben agua potable de nuestro sistema. Traducirlo o hablar con alguien que lo entienda.
Informações importantes para todos os consumidores que recebem água potável do nosso sistema. Traduza ou fale com alguém que entenda.
從我們的系統接收飲用水的所有消費者的重要信息。翻譯或與理解它的人交談。
Важная информация для всех потребителей, получающих питьевую воду из нашей системы. Переведите это или поговорите с кем-то, кто это понимает.
Thông tin quan trọng cho mọi người tiêu dùng nước uống thuộc về hệ thống của chúng tôi. Thông dịch hoặc nói chuyện với những người hiểu điều này.
Enfòmasyon enpòtan pou tout konsomatè k ap resevwa Dlo Potab nan sistèm nou an. Tradwi li oswa pale ak yon moun ki konprann li.
Informazioni importanti per tutti i consumatori che ricevono acqua potabile dal nostro sistema. Traducilo o parla con qualcuno che lo capisca.
ព័ត៌មានសំខាន់សម្រាប់អតិថិជនទាំងអស់ដែលទទួលបានទឹកផឹកពីប្រព័ន្ធរបស់យើង។ បកប្រែវាឬនិយាយជាមួយអ្នកដែលយល់ពីវា។

DEVENS MassDevelopment Public Water System
Important Information for all consumers receiving Drinking Water from our system
-- Translate it or speak with someone who understands it --
Revised April 18, 2019

Important Notice: This notice provides important information regarding your drinking water and contaminants known as Per- and Polyfluoroalkyl Substances (PFAS). While the most recent sampling results for this Public Water System showed PFAS in the system, they were below the current health guidelines established by the United States Environmental Protection Agency (EPA) and Massachusetts Department of Environmental Protection (MassDEP). This notice is intended to provide current information concerning MassDEP’s efforts to address PFAS in drinking water and provide health protective guidelines.

MassDEP PFAS Update Information

The EPA in 2016 published a drinking water Health Advisory Level for two of the PFAS compounds (Perfluorooctanesulfonic acid, PFOS, and Perfluorooctanoic acid, PFOA) combined at 0.070 micrograms per liter (ug/L) or 70 parts per trillion (ppt). In June 2018, MassDEP issued an Office of Research and Standards guideline (ORSG) for drinking water of 70 ppt for PFOA, PFOS, PFNA (Perfluorononanoic acid), PFHxS (Perfluorohexanesulfonic acid) and PFHpA (Perfluoroheptanoic acid) combined. The three additional PFAS were included because they share very similar chemical structures and the available data indicates they are likely to exhibit similar toxicities. The ORSG was established to be protective against adverse health effects for all people consuming the water for a lifetime and is also applicable to shorter-term exposures of weeks to months during pregnancy and breast-feeding.

Based on the current ORSG, MassDEP has recommended that:

- 1) consumers in sensitive subgroups (pregnant women, nursing mothers and infants) not consume water when the level of the five PFAS substances, individually or in combination, is above 70 ppt; and,
- 2) public water suppliers take steps expeditiously to lower levels of the five PFAS, individually or in combination, to below 70 ppt for all consumers.

As part of MassDEP’s efforts to address PFAS compounds, the agency has continued to review the current scientific information, studies and assessments on PFAS.

Based on this evaluation, MassDEP is undertaking the following actions:

- 1) MassDEP is proposing draft amendments to the Massachusetts hazardous waste cleanup regulations (the Massachusetts Contingency Plan or “MCP”), that include groundwater and soil cleanup standards. Consistent with the proposed ORSG level described below, the proposed Method 1 GW-1 Standard – applicable to groundwater protected for its current and/or future use as drinking water – is 20 ppt for the 5 compounds noted above plus Perfluorodecanoic acid (PFDA)(6 total).

- 2) MassDEP's Office of Research and Standards is convening its Health Effects Advisory Committee to provide scientific input on the technical basis of the proposed MCP standards and their implication regarding a potential revised ORSG with a limit of 20 ppt for the sum of the 6 PFAS compounds.
- 3) MassDEP also recently initiated the process to develop a drinking water standard for public drinking water systems, known as a Maximum Contaminant Level (MCL), for the six PFAS compounds. Information on this effort, including information on stakeholder meetings, can be found at <https://www.mass.gov/lists/development-of-a-pfas-drinking-water-standard-mcl>.

MassDEP is accepting comment on the draft MCP regulations, including the proposed PFAS standards. *Any comments received on the proposed MCP GW-1 standard* will also be considered by the Department in the revision of the ORSG and the development of the MCL.

What PFAS Levels have been detected in your drinking water, and what should you do?

Samples collected at the Patton and Sheboken Water Treatment Facilities on February 20, 2019 showed combined levels of 29 and 32 ppt respectively, for the following five PFAS: PFOA, PFOS, PFNA, PFHxS and PFHpA. The level of PFDA was reported as non-detect.

These results are below EPA's and MassDEP's current health advisory guidelines. However, they are above the new 20 ppt limit under consideration by MassDEP. If you are a sensitive consumer (pregnant women, nursing mothers, and infants) you can minimize your exposure by using bottled water that has been tested for PFAS for drinking, making infant formula and cooking of foods that absorb water, or by using a home water treatment system that is certified to remove PFAS by an independent testing group such as National Sanitation Foundation (NSF), Underwriters Laboratories (UL), Water Quality Association or the CSA Group. See MassDEP PFAS Factsheet for more information <https://www.mass.gov/doc/massdep-fact-sheet-pfas-in-drinking-water-questions-and-answers-for-consumers>.

Boiling water will not destroy PFAS and will somewhat increase their levels due to evaporation of some of the water. As PFAS compounds are not well absorbed through the skin, you may safely use the water for bathing and showering. If you are concerned about your exposure, even though the risk is very low, you may want to use bottled water for brushing your teeth and cleaning items like dentures, pacifiers, and fruits and vegetables. If you have specific health concerns regarding your exposure, you may want to consult a health professional, such as your doctor.

What is our water system doing?

Our system has taken the following actions:

- We will continue to sample our water source(s) for PFAS on a quarterly basis.
- While actions are being implemented to lower the PFAS concentration in our water, bottled water is being made available to sensitive consumers (pregnant women, nursing mothers and families with infants). Bottled water will also be made available to the following additional consumers at Devens:
 - Residential consumers
 - Students, patients, and employees in the following schools, daycare facilities and residential programs:
 - Applewild School
 - Evergreen Garden Playschool/Oxbow Schoolhouse
 - Francis W. Parker Charter Essential School
 - Guild of St. Agnes
 - Seven Hills ASPIRE!
 - Shriver Job Corps Center
 - Transitions at Devens
 - TaraVista Behavioral Health Center

Devens residents can pick up bottled water beginning immediately at the Department of Public Works (DPW) office at 99 Buena Vista. Water will be available for pick-up at the following times:

Wednesday, April 17: 10:00 a.m. – 8:00 p.m.

Tuesdays – Fridays: 2:00 p.m. – 6:00 p.m.

Saturday: 8:00 a.m. – 12:00 p.m.

Residents are asked to bring a state-issued identification card, such as a driver's license, or a Devens utility bill as proof of residency.

DPW will coordinate with Devens schools, daycare facilities, and residential programs referenced above to determine ideal methods of obtaining bottled water.

- The Devens Water Division will host community meetings on Thursday, April 18 at 7:00 p.m. and Tuesday, April 23 at 6:00 p.m. at the Bob Eisengrein Community Center, 100 Sherman Avenue. All members of the Devens community are invited to attend.
- We are working proactively and as expeditiously as possible to install treatment to remove the PFAS from Devens' drinking water.
- We are exploring interconnections with other public water systems to purchase drinking water.
- We are also investigating the source of the PFAS with assistance from MassDEP.

What are PFAS and how are people exposed to them?

PFAS are fluorinated organic chemicals. Two PFAS chemicals, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) have been the most extensively produced and studied of these chemicals. PFAS are contained in firefighting foams, which have been used in training exercises and to extinguish oil and gas fires at a variety of locations including airfields and military installations. PFAS are also used in a number of industrial processes and have been used to manufacture carpets, clothing, fabrics for furniture, paper packaging for food and other materials (e.g., nonstick cookware) that are resistant to water, grease or stains. Because these chemicals have been used in many consumer products, most people have been exposed to them.

While consumer products and food are the largest source of exposure to these chemicals for most people, drinking water can be an additional source of exposure in communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility, for example, an airfield at which they were used for firefighting or a facility where these chemicals were produced or used.

Where can you get more information?

For more information on what our system is doing about this situation, please contact Jim Moore, Devens Utility Manager at 978-784-2931 or jmoore@massdevelopment.com, or Jessica Strunkin, Senior Vice President of Devens, at 978-784-2960 or water@massdevelopment.com. Both can also be reached at MassDevelopment, 33 Andrews Parkway, Devens, MA 01434.

You can also get more information on PFAS from the following sources:

- MassDEP Fact Sheet – PFAS in Drinking Water: Questions and Answers for Consumers found at: <https://www.mass.gov/doc/massdep-fact-sheet-pfas-in-drinking-water-questions-and-answers-for-consumers>
- USEPA's Drinking Water Health Advisories can be found at: <https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos>
- The Centers for Disease Control and Prevention's Public Health Statement for PFOS and PFOA can be found at: <https://www.atsdr.cdc.gov/pfas/index.html>
- For additional information on possible health effects, you may contact the Massachusetts Department of Environmental Protection, Office of Research and Standards, at 617-556-1165.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by:



Jim Moore, Devens Utilities Manager
MassDevelopment

PWS ID#:
2019001

Date Distributed:
April 18, 2019



MassDEP Fact Sheet

Per- and Polyfluoroalkyl Substances (PFAS) in Drinking Water: Questions and Answers for Consumers

What are PFAS and how are people exposed to them?

PFAS are fluorinated organic chemicals. Two PFAS chemicals, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were extensively produced and are the most studied and regulated of these chemicals. Several other PFAS that are similar to PFOS and PFOA exist. These PFAS are contained in some firefighting foams used to extinguish oil and gas fires. They have also been used in a number of industrial processes and to make carpets, clothing, fabrics for furniture, paper packaging for food and other materials (e.g., cookware) that are resistant to water, grease and stains. Because these chemicals have been used in many consumer products, most people have been exposed to them.

While consumer products and food are the largest source of exposure to these chemicals for most people, drinking water can be an additional source of exposure in communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility, for example, an airfield at which they were used for firefighting or a facility where these chemicals were produced or used.

What are the levels of concern?

Scientific information and regulatory actions on PFAS are rapidly evolving. Currently, there are no enforceable federal or Massachusetts state standards for these substances in public drinking water. However, in May 2016, the United States Environmental Protection Agency (EPA) issued a lifetime drinking water Health Advisory (HA) of 0.070 µg/L (70 parts per trillion or ppt) for any combination of PFOA and PFOS. In June 2018, MassDEP extended this advisory to include three additional related PFAS chemicals - perfluorononanoic acid (PFNA), perfluorohexanesulfonic acid (PFHxS) and perfluoroheptanoic acid (PFHpA). This Massachusetts value, called a MassDEP Office of Research and Standards Guideline (ORSG), is a maximum recommended level for drinking water. It is set to be protective against adverse health effects for all people consuming the water for a lifetime and also applies to shorter-term exposures of weeks to months during pregnancy and breast-feeding.

Based on the current ORSG, MassDEP recommends that:

- 1) consumers in sensitive subgroups (pregnant women, nursing mothers and infants) not consume water when the level of the five PFAS substances, individually or in combination, is above 0.070 micrograms per liter (µg/L) or 70 parts per trillion (ppt); and,
- 2) public water suppliers take steps expeditiously to lower levels of the five PFAS, individually or in combination, to below 70 ppt for all consumers.

The June 2018 MassDEP ORSG and associated recommendations were developed out of an abundance of caution because the five PFAS compounds included in the ORSG share very similar chemical structures and the available data indicates they most likely exhibit similar toxicities.

New standards / guidelines under development

As part of its efforts to address the rapidly evolving science and policy on PFAS compounds, EPA is taking steps to further evaluate PFAS. As the national timeframes for action on drinking water are often long, MassDEP has

prioritized reviewing the current scientific information and assessments on these chemicals, and the agency taking actions to protect public health.

Based on this ongoing evaluation, MassDEP is currently engaged in a number of coordinated, concurrent efforts to inform its final decisions regarding PFAS at hazardous waste sites and in drinking water in MA. These efforts will be implemented over the next several months and include:

- Proposing draft amendments to the state’s hazardous waste cleanup regulations (the Massachusetts Contingency Plan or “MCP”) that include groundwater and soil cleanup standards for six PFAS. The proposed standard for groundwater that is used or may be used as drinking water is 20 ppt for 6 PFAS: the 5 compounds noted above, plus perfluorodecanoic acid (PFDA). MassDEP is accepting comment on the draft MCP regulations, including this proposed PFAS groundwater cleanup standard, until July 19, 2019.
- Having a group of independent scientists and public health professionals, coordinated by MassDEP’s Office of Research and Standards, review the technical basis of the proposed MCP groundwater cleanup standard for these PFAS.
- Revising the state’s PFAS drinking water guideline (ORSG).
- Working to establish a drinking water standard, called a Maximum Contaminant Level (MCL), for PFAS in public drinking water systems. The formal process to develop an MCL was launched in April 2019 and will align the MCL with the MCP GW-1 standard and revised ORSG and will include opportunities for public comment.

What does MassDEP currently recommend while the standard and guideline are being finalized?

If you are a sensitive consumer (pregnant women, nursing mothers, and infants) you can minimize your exposure by using bottled water that has been tested for PFAS for drinking, making infant formula and cooking of foods that absorb water or use a home water treatment system that is certified to remove PFAS by an independent testing group such as National Sanitation Foundation (NSF), Underwriters Laboratories (UL), Water Quality Association or the CSA Group. See MassDEP’s website on PFAS (under “Bottled water and home water filters”) for more information <https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas>.

What health effects are associated with exposure to PFAS?

EPA’s 2016 Health Advisory values for PFOS and PFOA were based on studies of these substances in laboratory animals and were also informed by studies of exposed people. Overall, these studies indicate that exposure to sufficiently elevated levels of PFOA and PFOS, as well as other closely-related PFAS compounds, may cause developmental effects in fetuses during pregnancy and in breastfed infants. Effects on the thyroid, the liver, kidneys, hormone levels and the immune system have also been reported. Some studies suggest a cancer risk may exist in people exposed to levels well above the EPA Health Advisory.

It is important to note that consuming water with PFAS above the recommended limits does not mean that adverse effects will occur. The degree of risk depends on the level of the chemicals and the duration of exposure. The recommended limit assumes that individuals drink only contaminated water, which typically overestimates exposure, and are also exposed to PFAS from sources beyond drinking water, such as food. To enhance safety, several uncertainty factors are additionally applied to account for the differences between animals and humans, and to account for the differences between people. Scientists are still working to study and better understand the health risks posed by exposures to PFAS. If your water has been found to have PFAS and you have specific health concerns, you may wish to consult with your doctor.

How can I find out about contaminants in my drinking water?

If you get your water from a public water system, you should contact them for this information. For a contact list for all public water systems in the Commonwealth you may visit:

<https://www.mass.gov/lists/drinking-water-health-safety#contacts> then under “Contacts” click on “MA Public Water Supplier contacts sorted By Town.”

For private well owners, you may want to contact your local Board of Health, Town government or town public water supplier for information specific to your Town’s water supply. For water testing, MassDEP recommends the use of a state certified analytical laboratory. Local Private Well Regulations may specify the use of a state certified lab. A searchable list of MassDEP certified labs can be found at:

<http://eeonline.eea.state.ma.us/DEP/Labcert/Labcert.aspx>

What options should be considered when PFAS in drinking water is above MassDEP’s drinking water guideline (ORSG) or new draft recommendation?

- ✓ Sensitive subgroups, including pregnant women, nursing mothers and infants, should consider using bottled water that has been tested for PFAS, for drinking, cooking of foods that absorb water (like pasta) and to make infant formula. Bottled water that has been tested for PFAS, or formula that does not require adding water, are alternatives.
- ✓ For older children and adults, the recommended guideline is applicable to a lifetime of consuming the water. For these groups, shorter duration exposures present less risk. However, if you are concerned about your exposure while steps are taken to assess and lower the PFAS concentration in your drinking water, use of bottled water that has been tested for PFAS will reduce your exposure.
- ✓ Water contaminated with PFAS can be treated by some home water treatment systems that are certified to remove PFAS by an independent testing group such as NSF, UL, Water Quality Association or the CSA Group. These may include point of entry systems, which treat all the water entering a home, or point of use devices, which treat water where it is used, such as at a faucet.
- ✓ In most situations the water can be safely used for washing and rinsing foods, cleaning dentures and pacifiers and washing dishes.
- ✓ The water can be safely used by adults and older children for brushing teeth. However, use of bottled water should be considered for young children as they may swallow more water than adults when they brush their teeth. If you are concerned about your exposure, even though the risk is very low, you could use bottled water for these activities.
- ✓ Because PFAS are not well absorbed through the skin, routine showering or bathing are not a significant concern unless PFAS levels are high. Shorter showers or baths, especially for children who may swallow water while playing in the bath, or for people with skin conditions (rashes, cuts, etc.) would limit any absorption from the water. Based on information from the Connecticut Department of Health, which is the only State to have issued guidance on this issue, water should not be used, long-term, for showering and bathing if the PFAS level exceeds 210 ppt.
- ✓ For pets, the health effects and levels of concern to mammalian species, like dogs, cats and farm animals are likely to be similar to those for people. There is some evidence that birds may be more sensitive to PFAS. There is little data on PFAS effects on other species like turtles, lizards, snakes and fish. As a precaution, if you have elevated levels of PFAS in your water, you should consider using alternative water for your pets.
- ✓ For gardening or farming, some plants are likely to take up some PFAS from irrigation water and soil. Unfortunately, there is not enough scientific data to predict how much will end up in a specific crop. Since people eat a variety of foods, the risk from the occasional consumption of produce grown in soil or irrigated with water contaminated with PFAS is likely to be low. Families who grow a large fraction of their produce would experience higher potential exposures and should consider the following steps, which should help reduce PFAS exposures from gardening:

- Maximize use of rainwater or water from another safe source for your garden.
- Wash your produce in clean water after you harvest it.
- Enhance your soil with clean compost rich in organic matter, which has been reported to reduce PFAS uptake into plants.
- **NOTE ON BOILING WATER:** Boiling water will not destroy these chemicals and will increase their levels somewhat due to water evaporation.
- **NOTE ON BOTTLED WATER:** Even though bottlers are not required to test for PFAS, some bottlers have tested. The best way to know if the bottled water you are drinking or plan to drink has been tested for PFAS is to contact the bottler and ask for the latest testing results. Contact information should be available on the bottle or you may need to search the internet. For more information, see MassDEP's website on PFAS (under "Bottled water and home water filters")
<https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas>.

Where can I get more information on PFAS?

MassDEP PFAS Information. <https://www.mass.gov/info-details/per-and-polyfluoroalkyl-substances-pfas>

Interstate Technology and Regulatory Council (ITRC). PFAS.
<https://www.itrcweb.org/Team/Public?teamID=78>

Association of State Drinking Water Administrators PFAS webpage <https://www.asdwa.org/pfas/>

EPA's Drinking Water Health Advisories for PFOA and PFOS can be found at: <https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos>

The Centers for Disease Control and Prevention's Public Health Statement for PFOS and PFOA can be found at: <https://www.atsdr.cdc.gov/pfas/index.html>

For additional information on possible health effects, you may contact the Massachusetts Department Environmental Protection, Office of Research and Standards at 617-556-1165.

For information on the MassDEP Drinking Water Program, you may visit <https://www.mass.gov/drinking-water-program> or contact the program at program.director-dwp@state.ma.us or 617-292-5770.