

EPA Update on Regional Screening Levels for Per- and Polyfluoroalkyl Substances

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Summary

- Purpose of Screening Levels
- EPA's 5/18/2022 Regional Screening Levels (RSLs) Update
- Impacts at Joint Base Cape Cod
- EPA Lifetime Drinking Water Health Advisories (HAs)

Purpose of Screening Levels

- Screening levels are NOT cleanup standards.
- Screening levels are risk-based values that help EPA determine if further investigation or actions are needed.
- Examples of screening levels for groundwater
 - Maximum Contaminant Levels (MCLs)
 - Regional Screening Levels (RSLs)
 - MMCLs

EPA RSLs

- Update on 5/18/2022 for certain PFAS compounds
 - RSLs in general are regularly updated twice a year
- Added PFOS, PFOA, PFNA, PFHxS, HFPO-DA (GenX)
- PFBS (added in 2014) did not change
- More information:
 - www.epa.gov/risk/regional-screening-levels-rsls

Comparison of Drinking Water Screening Values (Nanogram per Liter)

Chemical	Old EPA RSL (ng/L) HQ=0.1	New EPA RSL Tap Water (ng/L) HQ=0.1	MMCL (ng/L)	Limit of Quantitation* (ng/L)
PFOA	40	6	Sum = 20	5
PFOS	40	4		5
PFNA	-	5.89		5
PFHxS	-	39.4		5
PFHpA	-	na		5
PFDA	-	na		5
HFPO-DA (GenX)	-	6	Na	na
PFBS*	600	No change	Na	5

*Method LCP-PFC from Flight Line Operable Unit RI Work Plan. Limit of Detection (LOD) values are Lower than Limit of Quantitation (LOQ) but results are considered an estimated (J) value if below the LOQ.

Sites Impacted

Landfill-1 Groundwater Plume Feasibility Study

FTA-1/AV Supplemental RI for PFAS and 1,4-Dioxane

Tanker Truck Rollover Sites Remedial Investigation

Flight Line Area Operable Unit Remedial Investigation

EPA's Lifetime Drinking Water Health Advisories (HAs)

- Health advisories provide technical information, based on the best available science, that include the level of a contaminant in drinking water below which adverse health effects are not expected to occur.
- EPA's lifetime HAs identify levels to protect all people, including sensitive populations and life stages, from adverse health effects resulting from a lifetime of exposure to these PFAS in drinking water. They also take into account other potential sources of exposure to these PFAS beyond drinking water (for example, food, air, consumer products, etc.), which provides an additional layer of protection.
- Although they are non-regulatory and non-enforceable, health advisories provide technical information that federal, state, and local agencies can use to inform actions to address PFAS in drinking water.

EPA's Lifetime Drinking Water Health Advisories (HAs)

- 6/15/22 - EPA announced four drinking water HAs for PFAS, two of which are final:
 - Final HA for GenX chemicals = 10 parts per trillion (ppt)
 - Final HA for PFBS = 2,000 ppt
- Two drinking water HAs are Interim Updated HAs and based on draft toxicity information. The Superfund is not considering these Interim Updated HAs until such time that they are finalized:
 - Interim updated HA for PFOA = 0.004 ppt
 - Interim updated HA for PFOS = 0.02 ppt

Questions?

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