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State of Wisconsin
Department of Health Services

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November 6, 2020

Darsi Foss, Administrator
Division of Environmental Management
Department of Natural Resources
101 S Webster St, Box 7921
Madison, WI 53703

Dear Ms. Foss,

Enclosed is the 11th Cycle of Groundwater Standards Proposals. This packet includes proposals for new standards for 22 substances. Our recommendations include individual standards for 6 pesticides, individual standards for 12 per- and polyfluoroalkyl substances (PFAS), and combined standards for 4 PFAS. We did not recommend standards for 18 PFAS because of limited health information. Also enclosed with this letter is a summary table of our recommendations.

Please contact me if you have any questions regarding these recommendations. We look forward to working with you over the coming months as you use these proposals in rule-making.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Smiley".

Stephanie Smiley
Interim State Health Office and Division Administrator
Division of Public Health

Enclosures:
Summary of Cycle 11 Recommendations
Scientific Support Documents for the Cycle 11 Recommended Groundwater Standards

Summary of Cycle 11 Recommendations

Substance	Recommended Enforcement Standard ⁽ⁱ⁾	Recommended Preventive Action Limit ⁽ⁱ⁾
Metalaxyl	800 µg/L	160 µg/L
Chlorantraniliprole	16 mg/L	3.2 mg/L
Flumetsulam	10 mg/L	2 mg/L
Fomesafen	25 µg/L	5 µg/L
Hexazinone	400 µg/L	40 µg/L
Saflufenacil	460 µg/L	46 µg/L
Perfluorotridecanoic acid (PFTriA) ⁽ⁱⁱ⁾	No recommendations	
Perfluorotetradecanoic acid (PFTeA)	10 µg/L	2 µg/L
Perfluorobutanoic acid (PFBA)	10 µg/L	2 µg/L
Perfluoropentanoic acid (PFPeA) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluorohexanoic acid (PFHxA)	150 µg/L	30 µg/L
Perfluoroheptanoic acid (PFHpA) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluorononanoic acid (PFNA)	30 ng/L	3 ng/L
Perfluorodecanoic acid (PFDA)	300 ng/L	60 ng/L
Perfluoroundecanoic acid (PFUnA)	3 µg/L	0.6 µg/L
Perfluorobutanesulfonic acid (PFBS)	450 µg/L	90 µg/L
Perfluorohexanesulfonic acid (PFHxS)	40 ng/L	4 ng/L
Perfluoroheptanesulfonic acid (PFHpS) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluorooctane sulfonamide (FOSA)	20 ng/L*	2 ng/L*
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA)		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)		
Perfluorododecanoic acid (PFDoA)	500 ng/L	100 ng/L
6:2 Fluorotelomer sulfonic acid (6:2 FTSA) ⁽ⁱⁱ⁾	No recommendation	
8:2 Fluorotelomer sulfonic acid (8:2 FTSA) ⁽ⁱⁱ⁾	No recommendation	
Perfluorodecanesulfonic acid (PFDS) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluoropentanesulfonic acid (PFPeS) ⁽ⁱⁱⁱ⁾	No recommendations	
Hexafluoropropylene oxide dimer acid (HFPO-DA; GenX) ^(iv)	300 ng/L	30 ng/L
4:2 Fluorotelomer sulfonic acid (4:2 FTSA) ⁽ⁱⁱⁱ⁾	No recommendations	
10:2 Fluorotelomer sulfonic acid (10:2 FTSA) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluorohexadecanoic acid (PFHxDA) ⁽ⁱⁱⁱ⁾	No recommendations	
Perfluorooctadecanoic acid (PFODA)	400 µg/L	80 µg/L
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	3 µg/L	0.6 µg/L

9-chlorohexanedecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS; F-53B Major) ^(iii; iv)	No recommendations
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS; F-53B Minor) ^(iii; iv)	No recommendations
Perfluorododecanesulfonic acid (PFDoS) ⁽ⁱⁱⁱ⁾	No recommendations
Perfluorononanesulfonic acid (PFNS) ⁽ⁱⁱⁱ⁾	No recommendations
N-Methyl Perfluorooctane sulfonamide (NMeFOSA) ⁽ⁱⁱⁱ⁾	No recommendations
N-Methyl perfluorooctane sulfonamidoacetic acid (NMetOSAA) ⁽ⁱⁱⁱ⁾	No recommendations
N-Methyl perfluorooctane sulfonamidoethanol (NMetOSE) ⁽ⁱⁱⁱ⁾	No recommendations

Notes:

- * DHS recommends a combined standard for NtFOSE, NtFOSA, NtFOSAA, FOSA, PFOS and PFOA.
- i. ng/L= nanograms per liter – equivalent to parts per trillion
µg/L = micrograms per liter – equivalent to parts per billion
mg/L = milligrams per liter – equivalent to parts per million
- ii. DHS reviewed this substance but did not recommend standards due to limited health information.
- iii. DHS did not review this substance because our screening indicated that there was not enough technical information to set a standard.
Ayers, J. F. Oct 28 2019. Revised Timeline for recommendations for state groundwater quality standards.
- iv. GenX and F-53B are a trade names.