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Supplemental Material

Tap Water Contributions to Plasma Concentrations of Poly- and Perfluoroalkyl Substances (PFAS) in a Nationwide Prospective Cohort of U.S. Women

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Table S10. Modeled relative source contribution (%) of tap water to overall PFAS exposure among 110 Nurses' Health Study participants in 1989/1990.

Table S11. Modeled relative source contribution (%) of tap water to overall PFAS exposure stratified by number of years living in the current residence.

Table S12. Comparison of the relative source contribution (RSC) of tap water estimated using the deterministic toxicokinetic model and estimated using a Monte Carlo (MC) simulation.

Figure S1. Chromatograms of PFASs in an extract of HDPE water sampling bottle, analyzed using an Agilent 6460 LC-MS/MS equipped with an online-SPE system (Agilent 1290 Infinity Flex Cube) in dynamic multiple reaction mode.

Figure S2. The distribution of estimated median relative source contribution from tap water among 300 Monte Carlo simulations that consider interindividual variability in TK parameters and drinking water consumption rates.

Figure S3. Sensitivity analysis showing contribution of each input parameter of the one-compartment toxicokinetic model to the variability of estimated relative source contribution of tap water. Contribution of different input parameters was calculated as the square of the correlation coefficient between input parameter and estimated RSC, normalized to the sum of the squared correlation coefficients (Wang et al. 2016). V_D stands for volume of distribution, DW stands for drinking water consumption rate.

Figure S4. Number of relevant industrial sites in Massachusetts from 1987 to 2015, as reported in EPA Toxic Release Inventory database. No information on the magnitudes of PFAS releases is available in this database so we identified relevant industrial sources following the methods outline in previous work using the North American Industrial Classification System (NAICS) code (Zhang et al. 2016). Full list of NAICS code is provided in Table S10.

References