

# MDE data

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**MDE data overview:**

**PFAS by location**

**Sum PFAS in species and water across time and space**

**Summary by year**

**Summary by species**

**Correlations**

**Data summary tables (next...)**

### All sampling locations by region

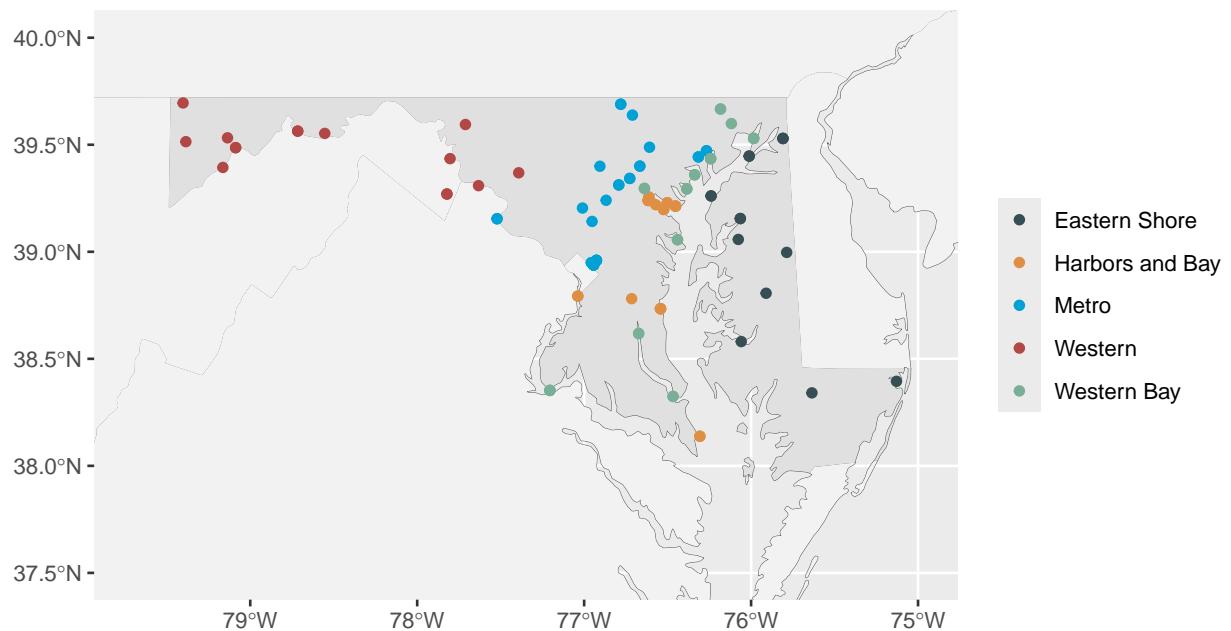
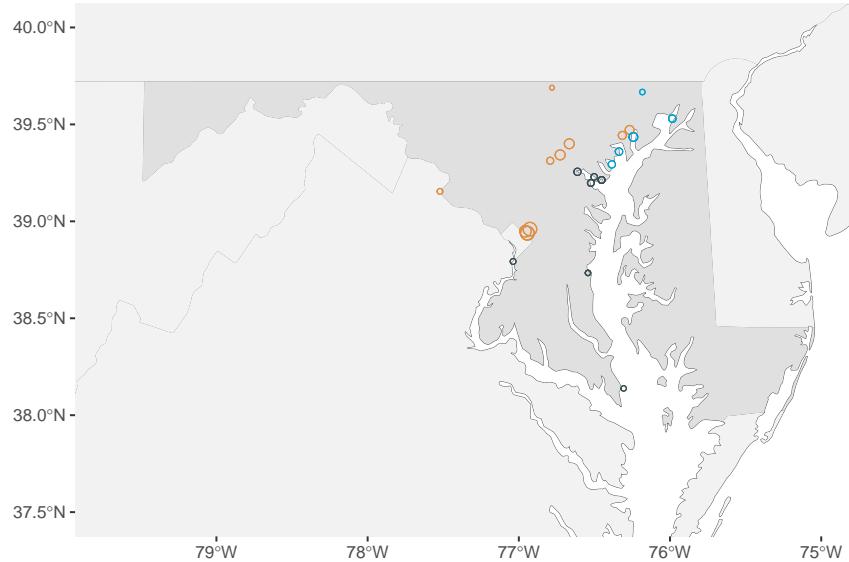


Figure 1: Figure 1. The map of all sampling locations across years 2020-2022.

**A**

## Sum PFAS in water – 2021

- Harbors and Bay ○ Western Bay ○ 0 ○ 50 ○ 100 ○ 150
- Metro

**B**

## Sum PFAS in water – 2022

- Eastern Shore ○ Western ○ 0 ○ 50 ○ 100 ○ 150
- Metro ○ Western Bay

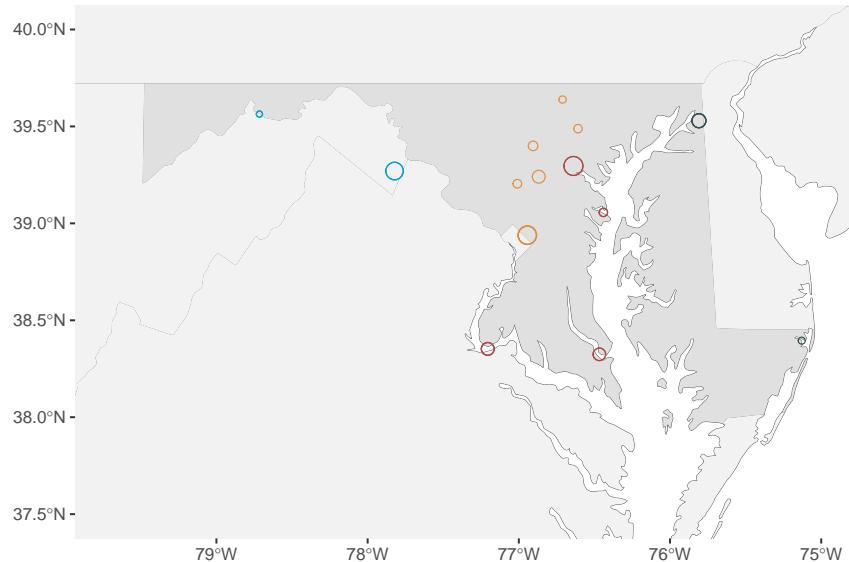


Figure 2: Figure 2. Sum PFAS in water by sampling location in each region. The size of the symbol is the relative to the sum PFAS, the color marks the sampling region.

## Sum PFAS in fish – 2020

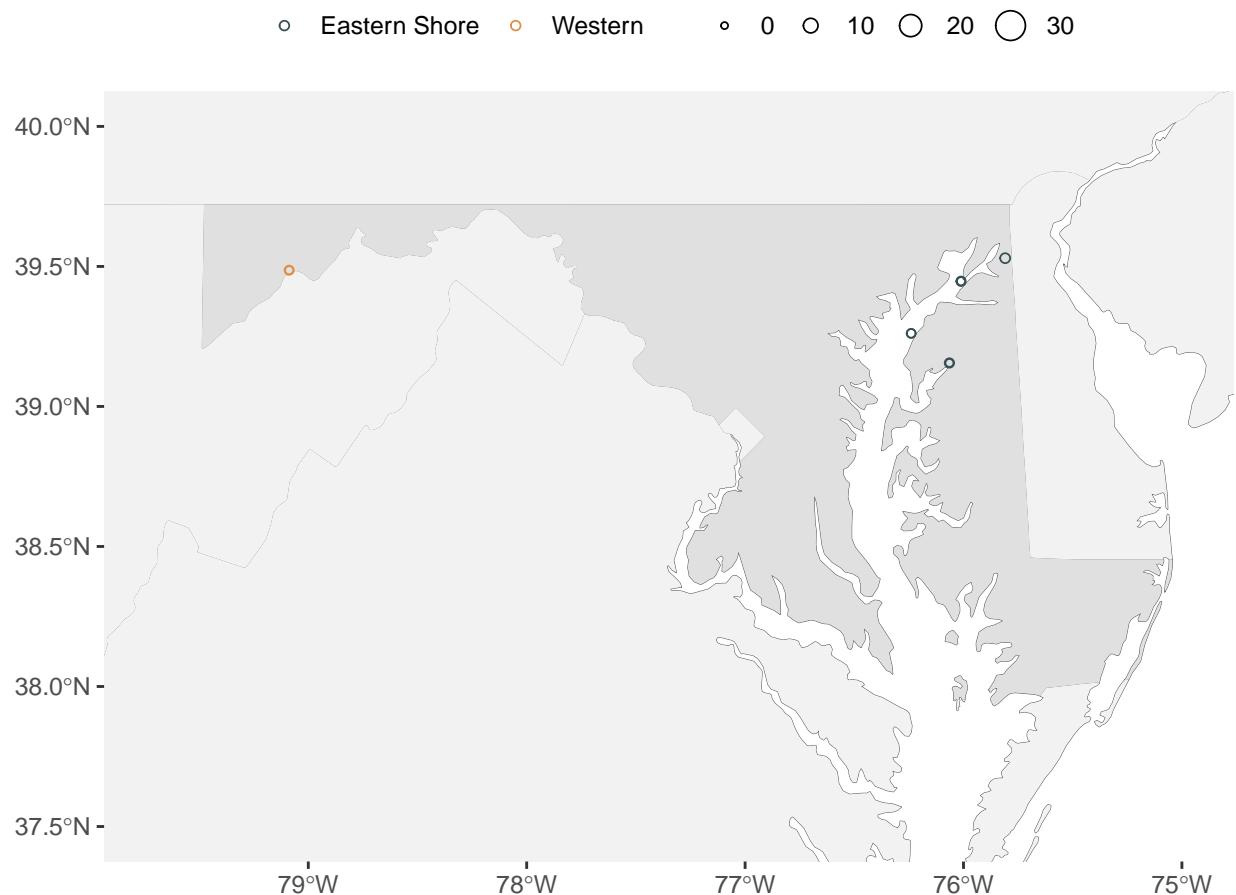


Figure 3: Figure 3. Sum PFAS in fish by sampling location in each region in 2020. The size of the symbol is the relative to the sum PFAS, the color marks the sampling region. Each curcle represents fish species; in some cases, multiple species were sampled per site.

## Sum PFAS in fish – 2021

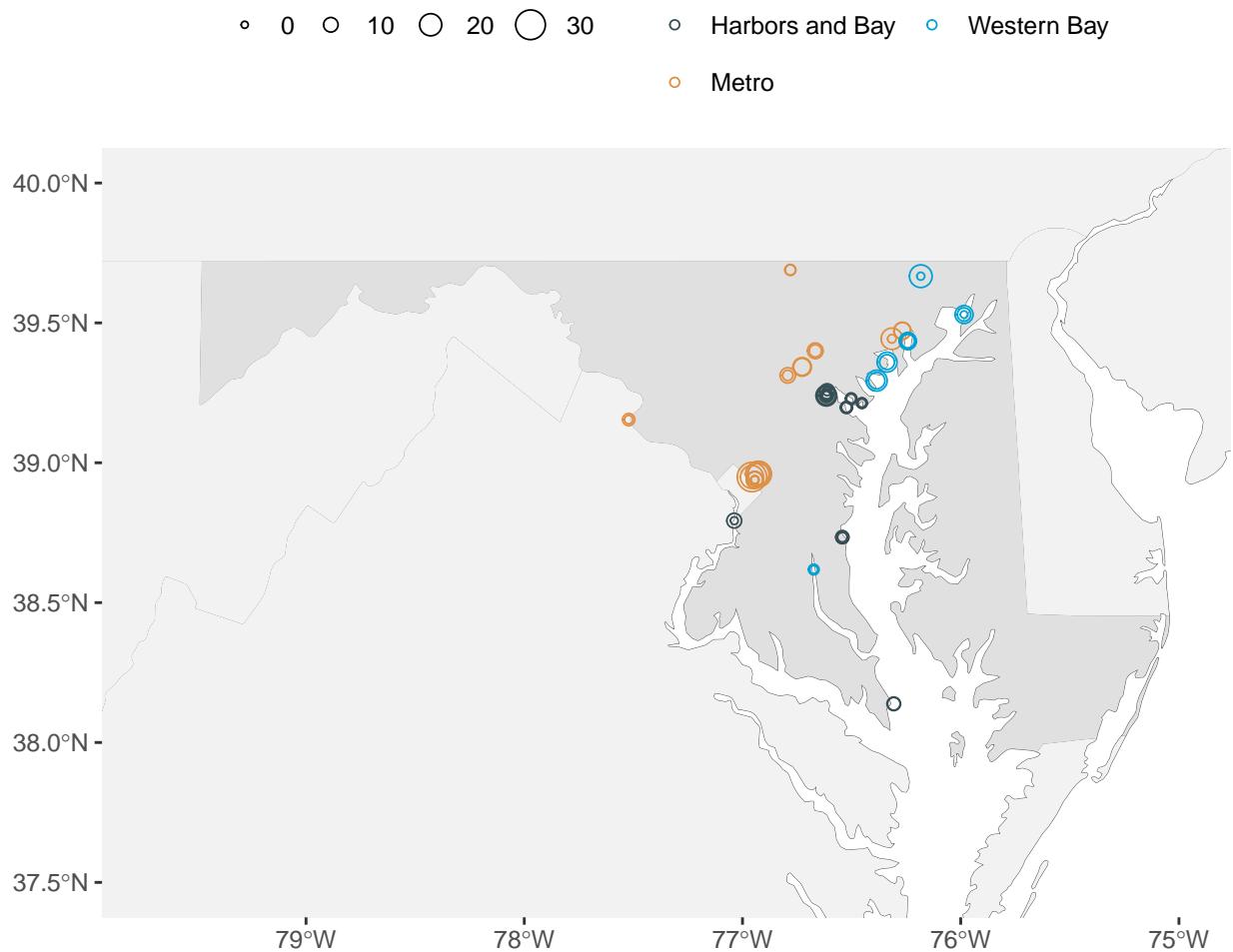


Figure 4: Figure 4. Sum PFAS in fish by sampling location in each region 2021. The size of the symbol is the relative to the sum PFAS, the color marks the sampling region. Each curcircle represents fish species; in some cases, multiple species were sampled per site.

## Sum PFAS in fish – 2022

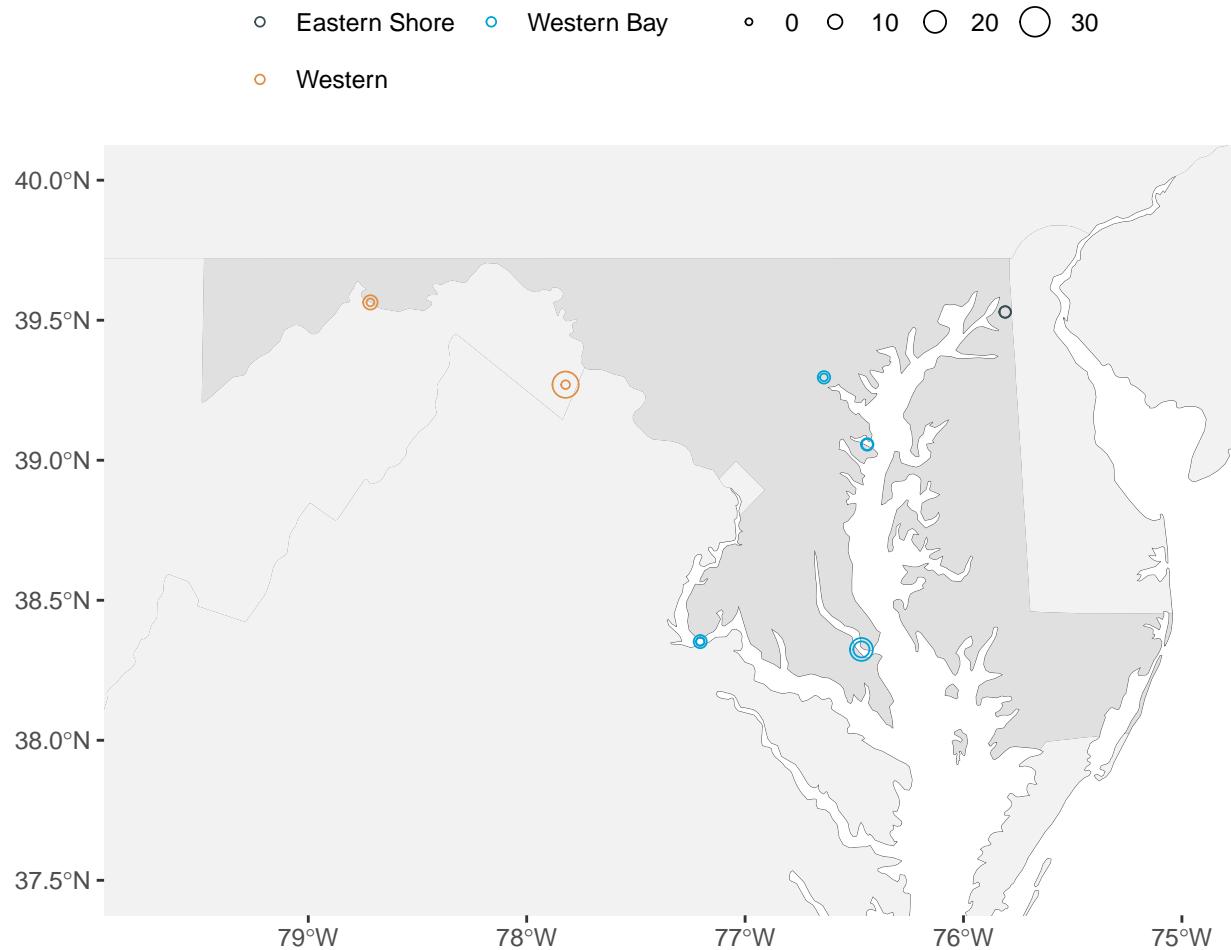


Figure 5: Figure 5. Sum PFAS in fish by sampling location in each region in 2022. The size of the symbol is the relative to the sum PFAS, the color marks the sampling region. Each circle represents fish species; in some cases, multiple species were sampled per site.

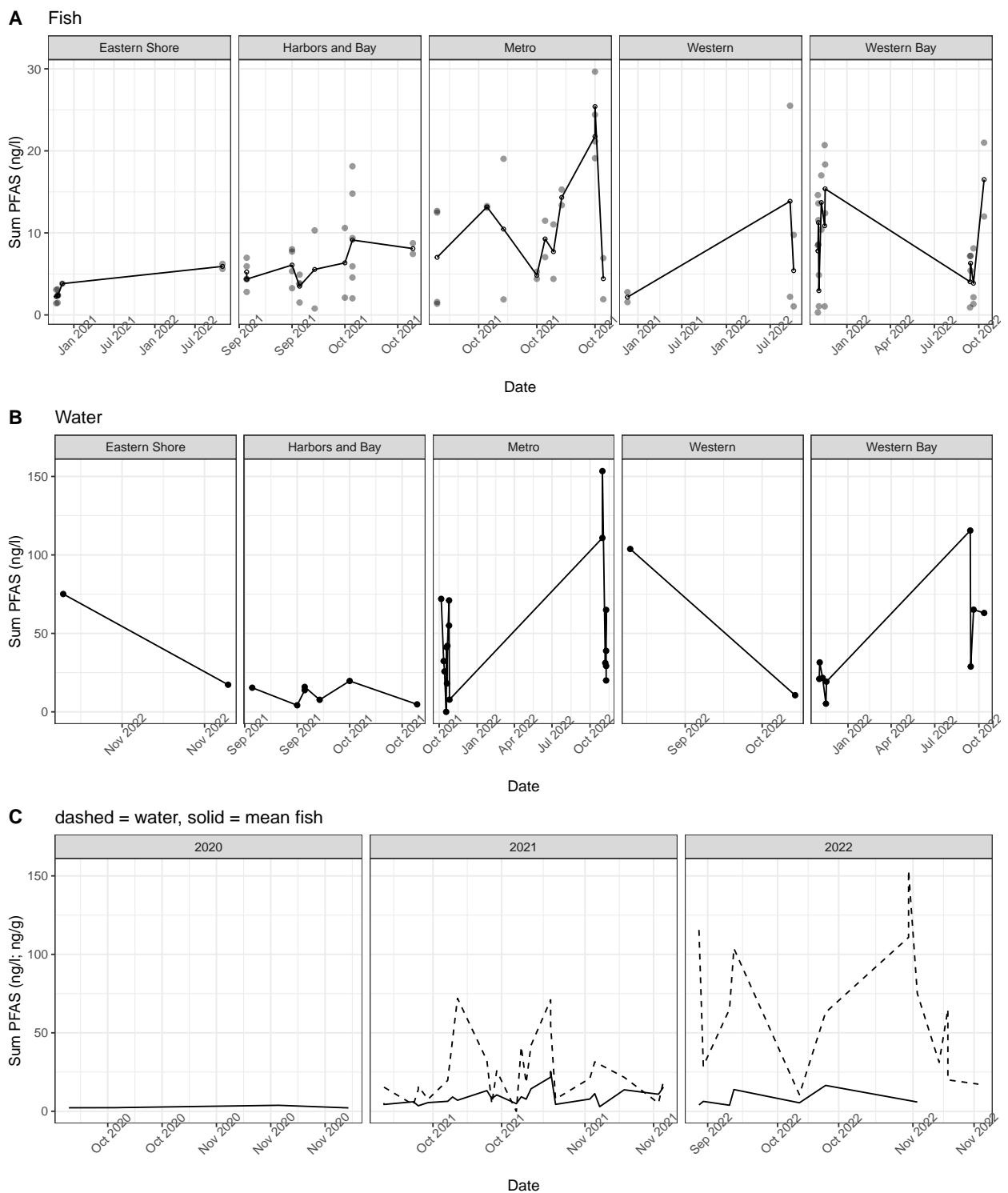


Figure 6: Figure 6. Sum PFAS by sampling region across time. A: sum PFAS in fish tissue; connected dots with the line are mean sum PFAS of each sampled fish in each sampling site, the light color dots mark each fish. B: Sum PFAS in water. C: Sum PFAS of fish (solid lines) and water (dashed lines) across years; line connects data from the same sampling site.

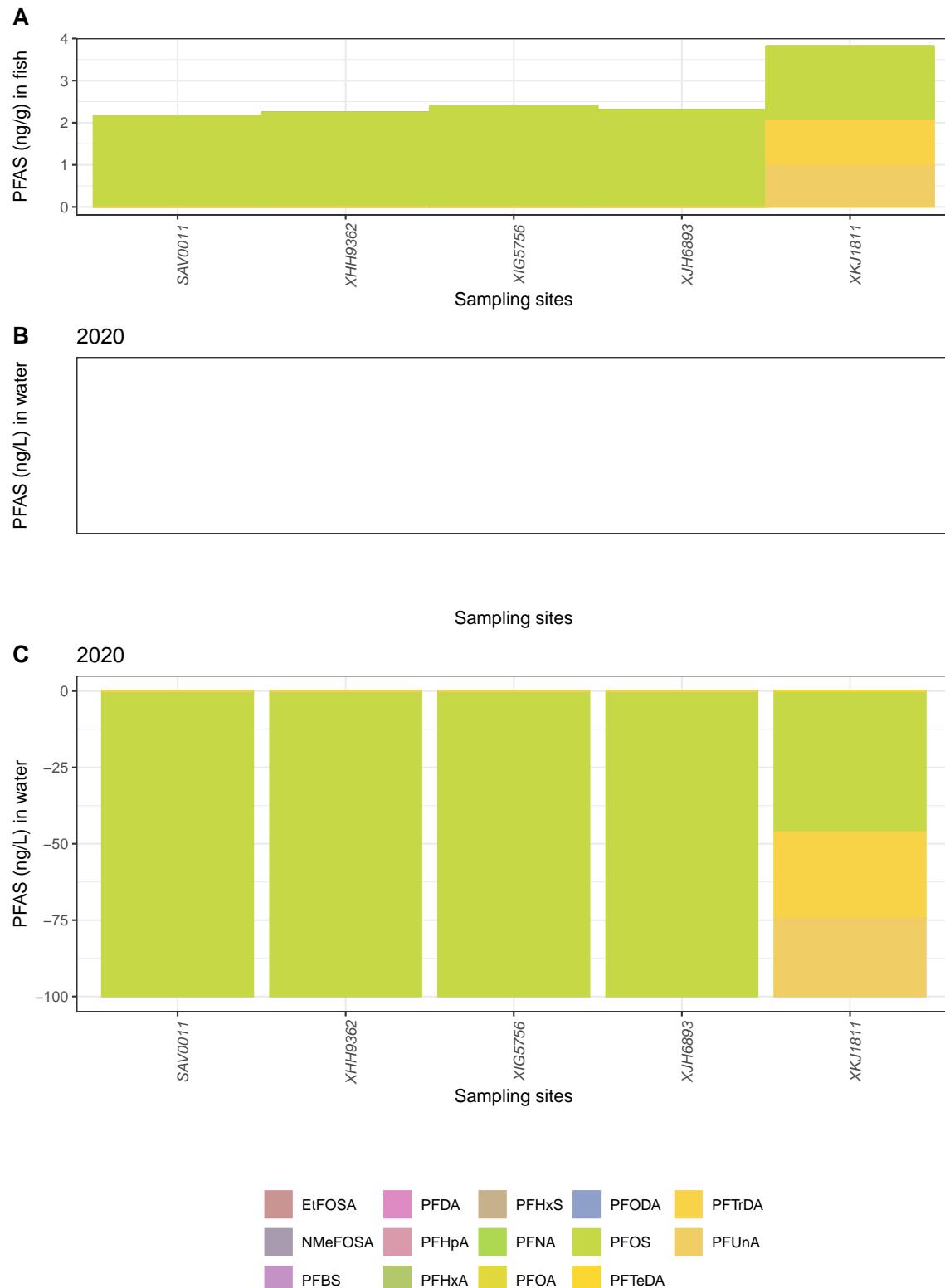


Figure 7: Figure 7. PFAS profiles by sampling location in 2020. A: The mean PFAS in fish tissues. The number is an average of all measured individuals and species. B: PFAS profile in water. C: The comparison on PFAS profile (by %) in water and fish tissues. The positive values are for water samples, and then negative values are the for fish tissue. If data plot is empty, there were no data.

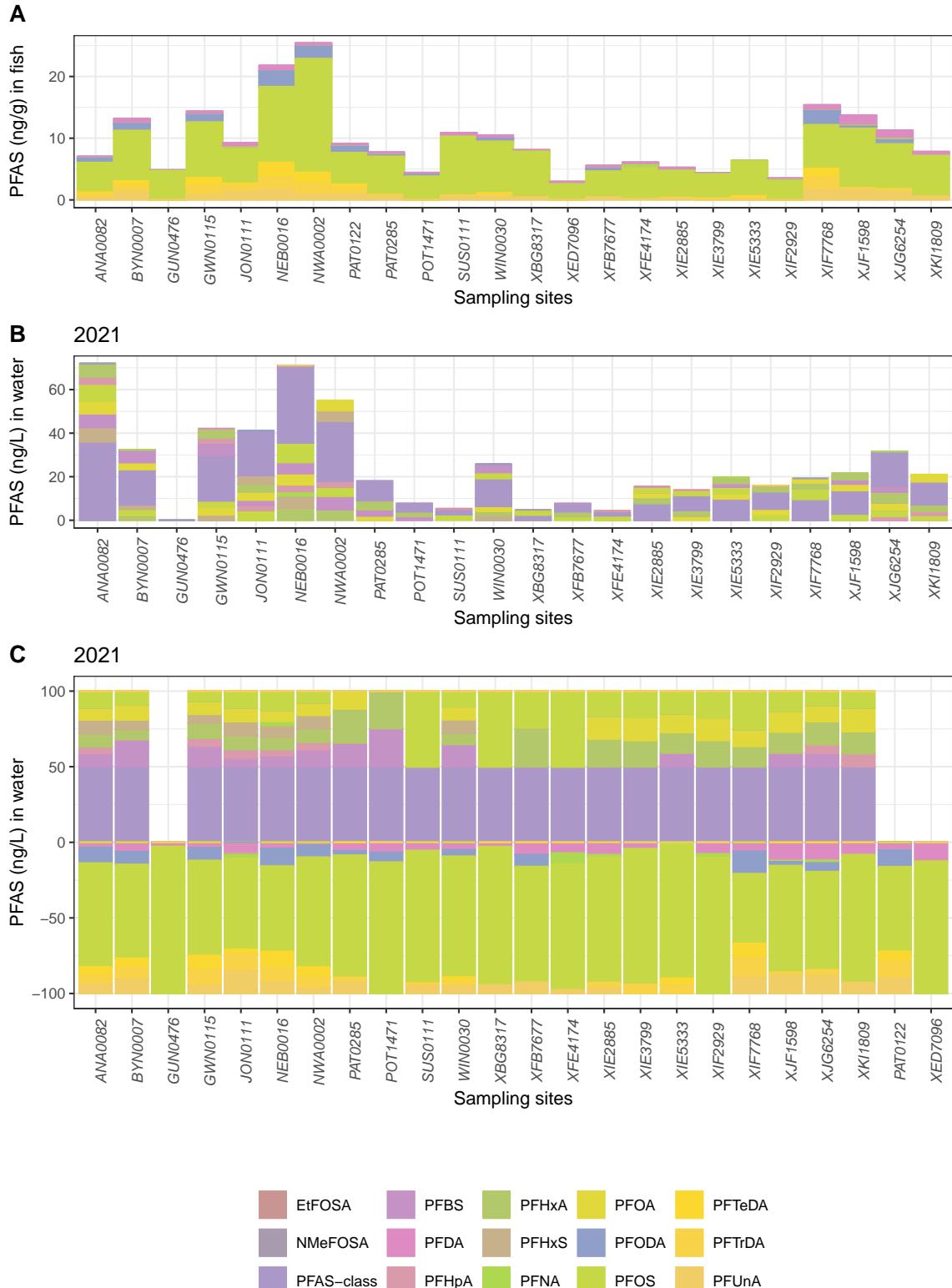


Figure 8: Figure 8. PFAS profiles by sampling location in 2021. A: The mean PFAS in fish tissues. The number is an average of all measured individuals and species. B: PFAS profile in water. C: The comparison on PFAS profile (by %) in water and fish tissue. The positive values are for water samples, and then negative values are for fish tissue. If data plot is empty, there were no data.

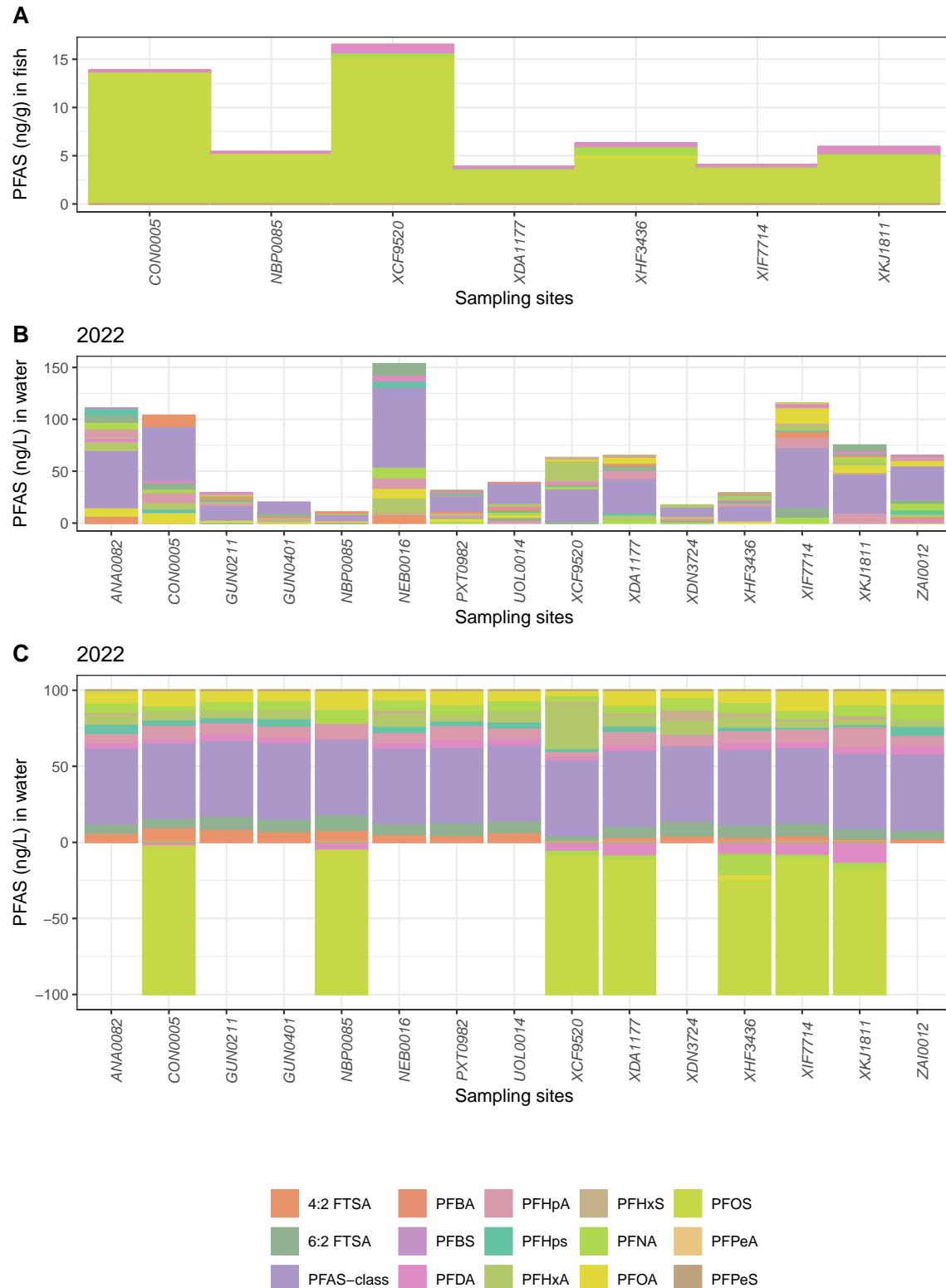


Figure 9: Figure 9. PFAS profiles by sampling location in 2022. A: The mean PFAS in fish tissues. The number is an average of all measured individuals and species. B: PFAS profile in water. C: The comparison on PFAS profile (by %) in water and fish tissues. The positive values are for water samples, and then negative values are for fish tissue. If data plot is empty, there were no data.

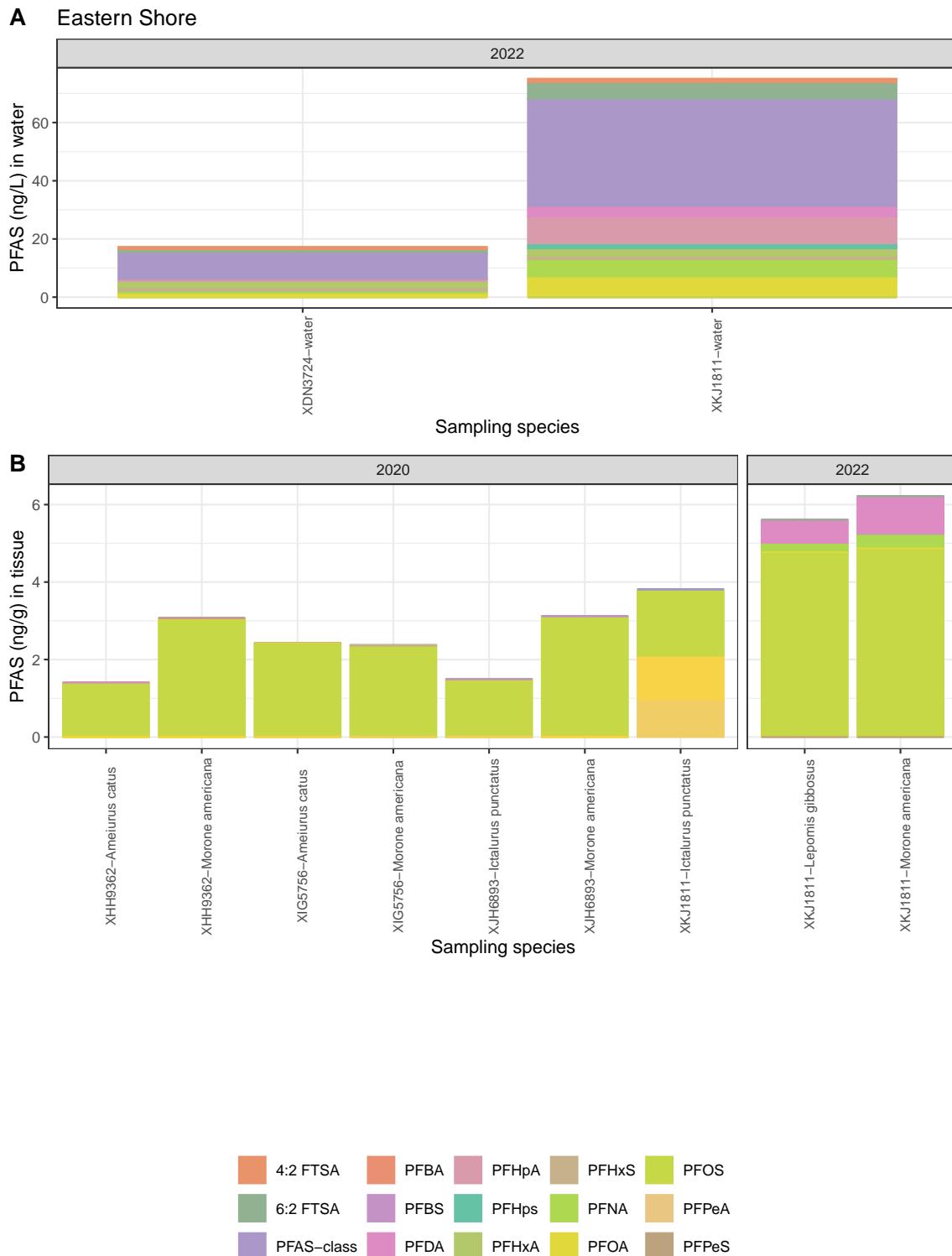
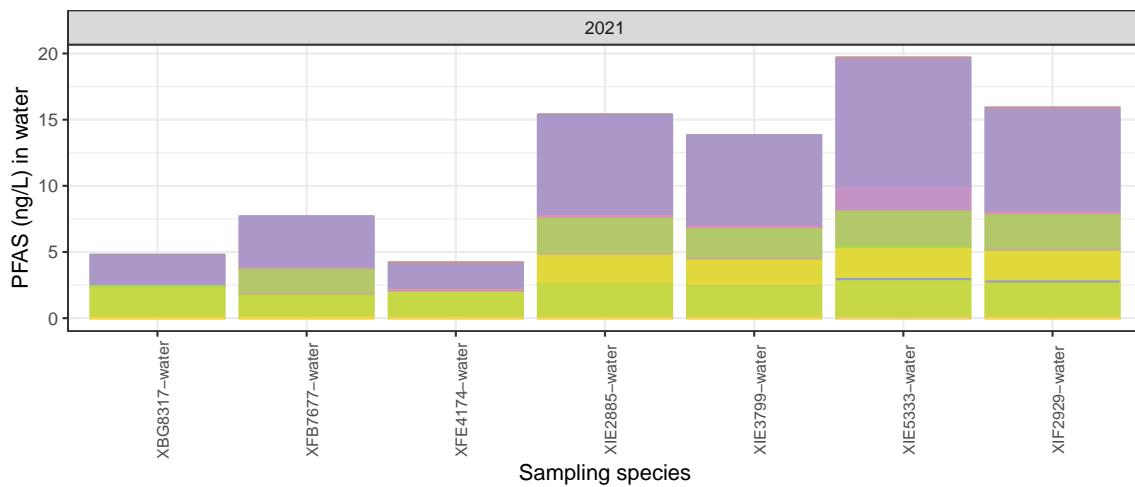


Figure 10: Figure 10. PFAS profiles species in Eastern Shore region seperated by year. A: PFAS in water. B: PFAS profile in each species.

**A** Harbors and Bay



**B**

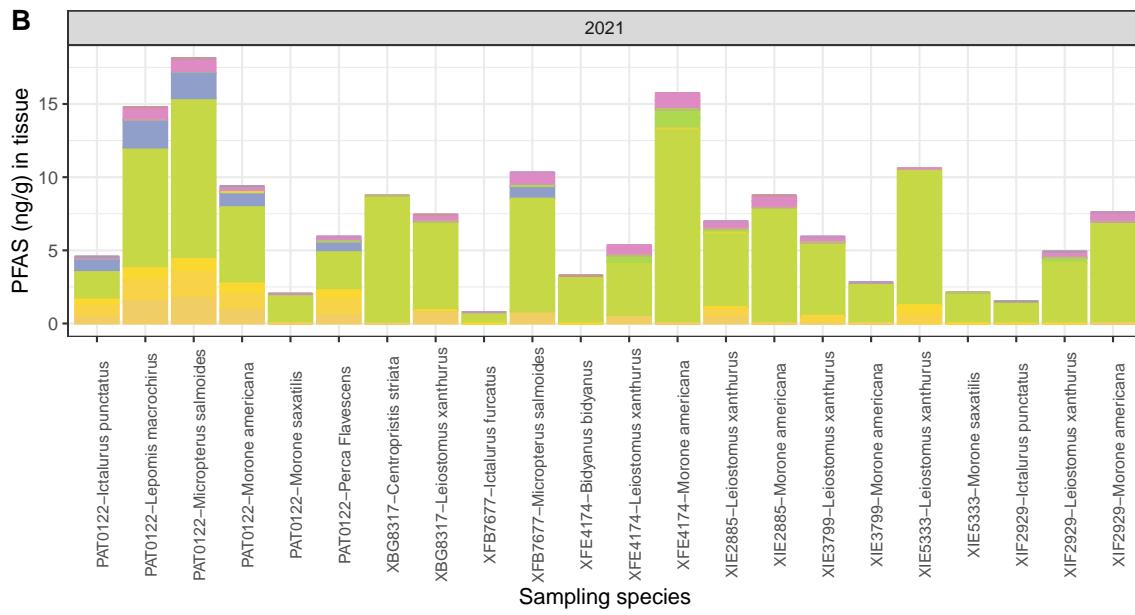


Figure 11: Figure 11. PFAS profiles species in Harbors and Bay region seperated by year. A: PFAS in water. B: PFAS profile in each species.

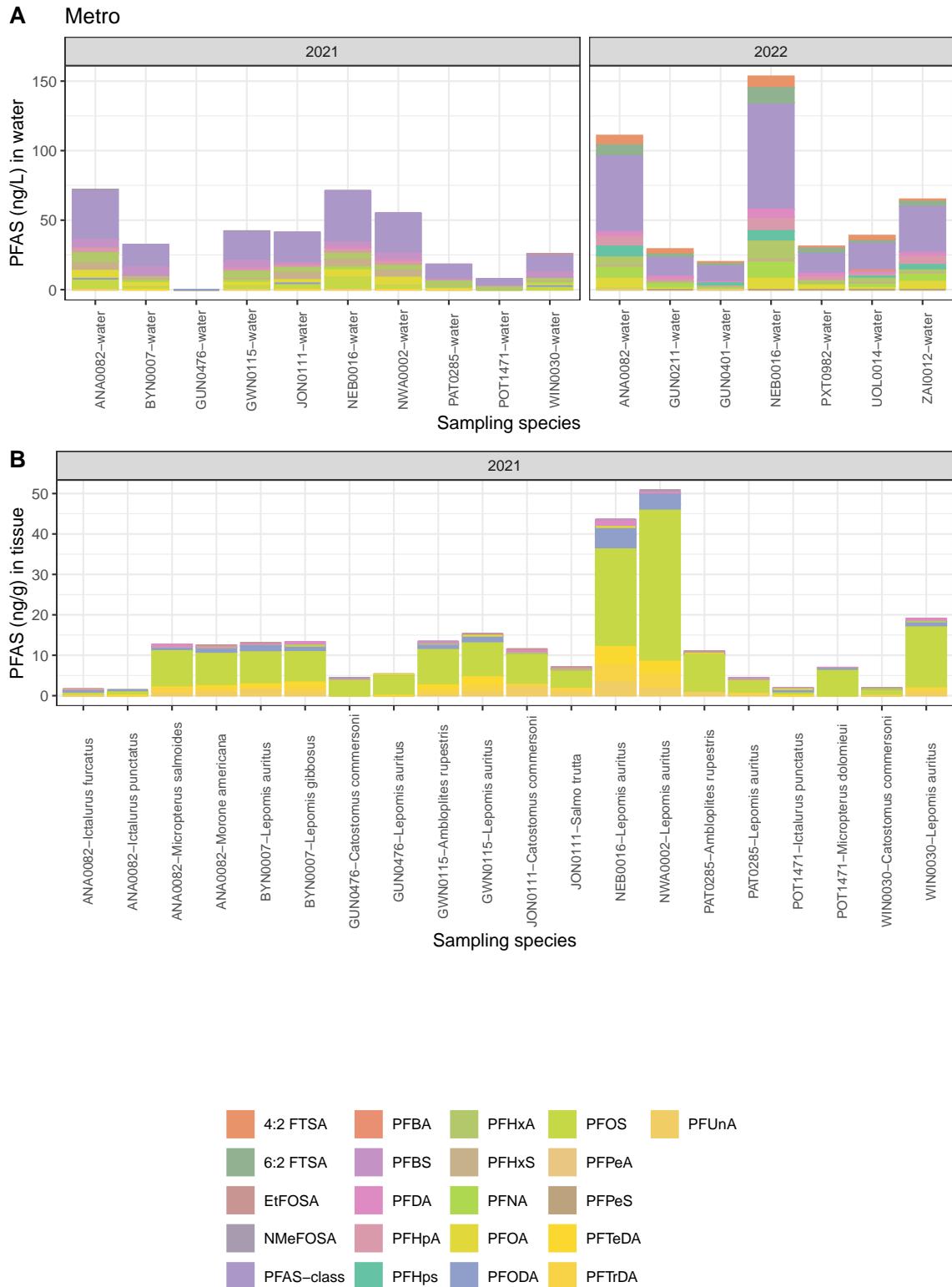


Figure 12: Figure 12. PFAS profiles species in Metro region seperated by year. A: PFAS in water. B: PFAS profile in each species.

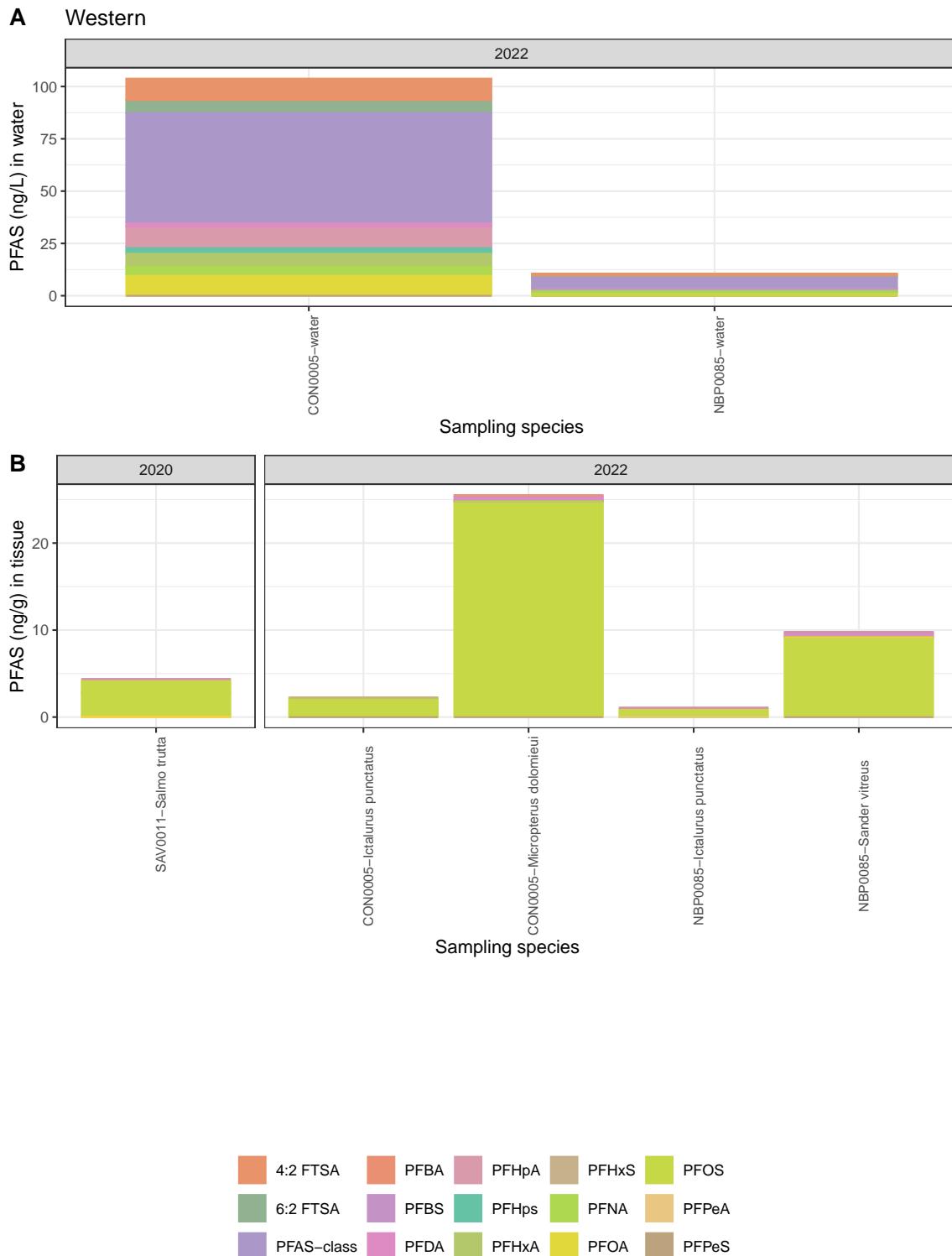


Figure 13: Figure 13. PFAS profiles species in Western region seperated by year. A: PFAS in water. B: PFAS profile in each species.

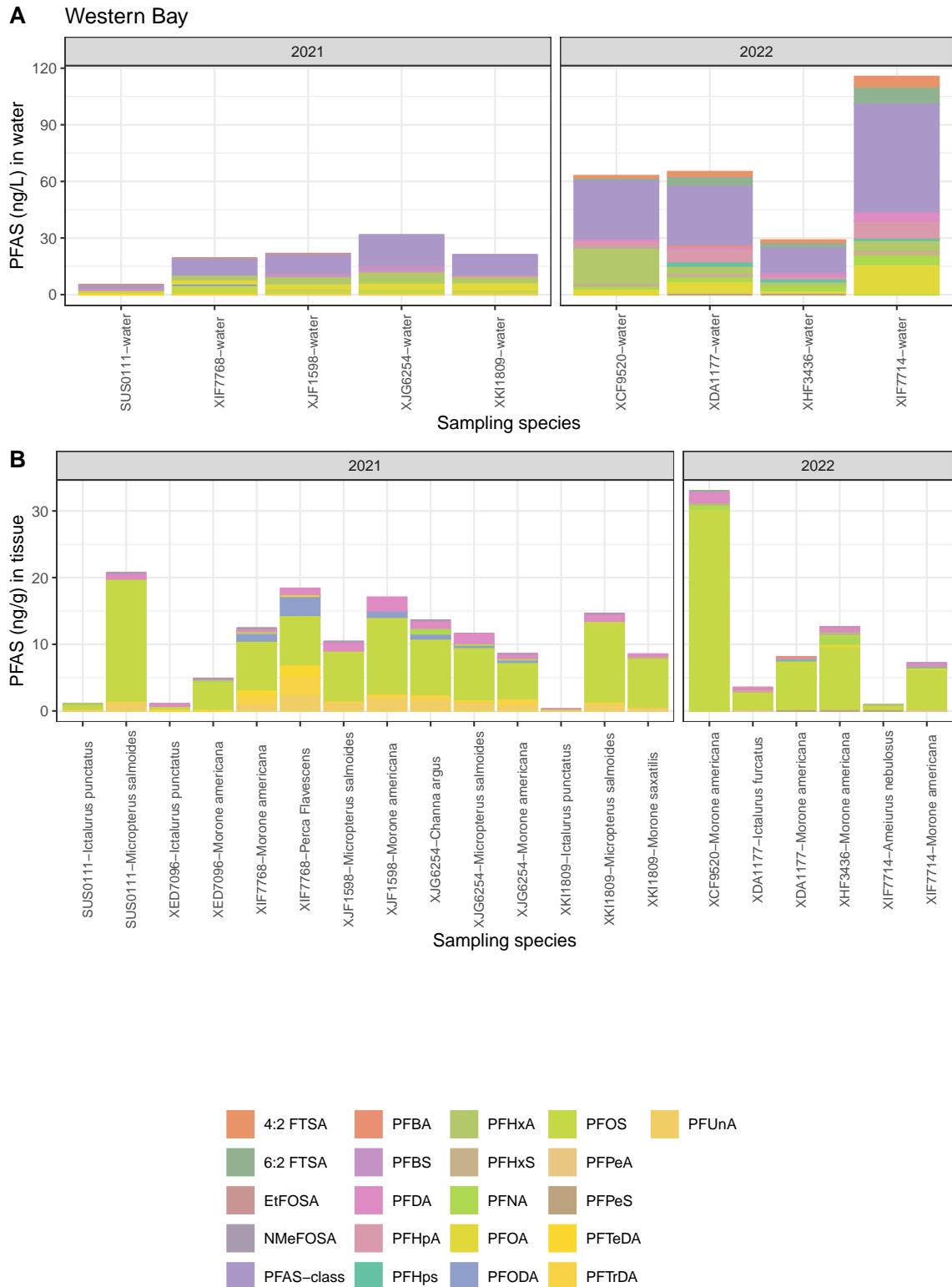
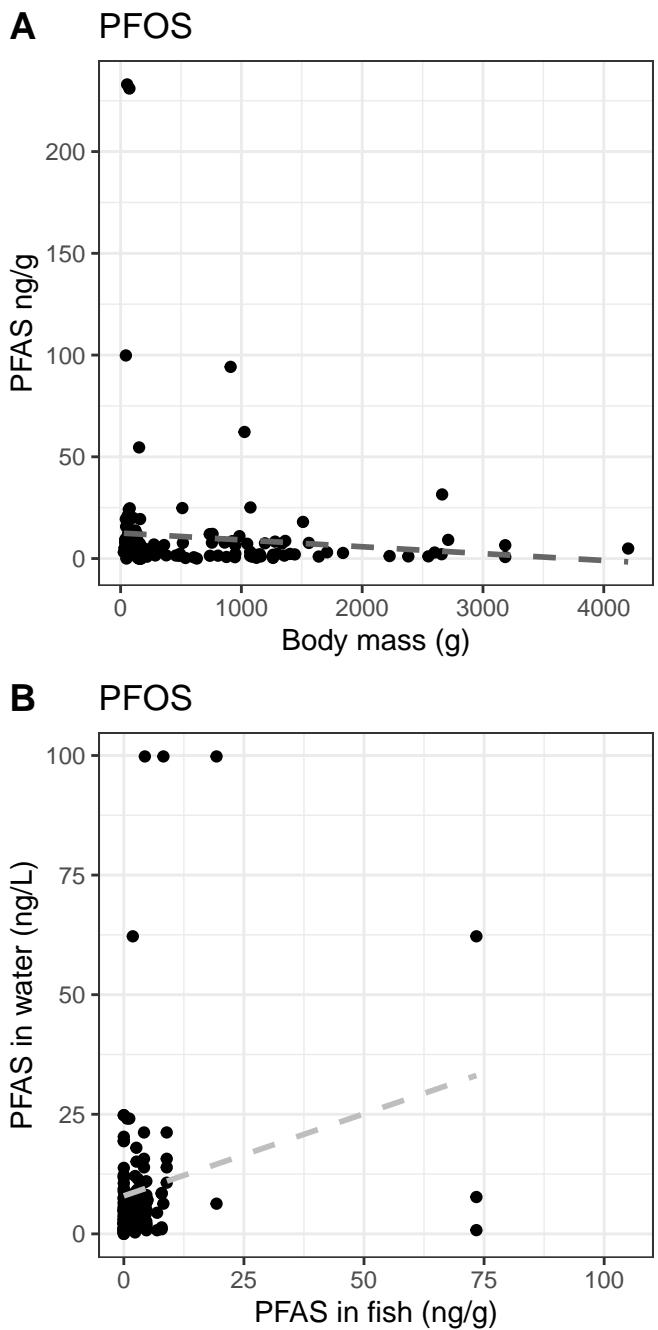
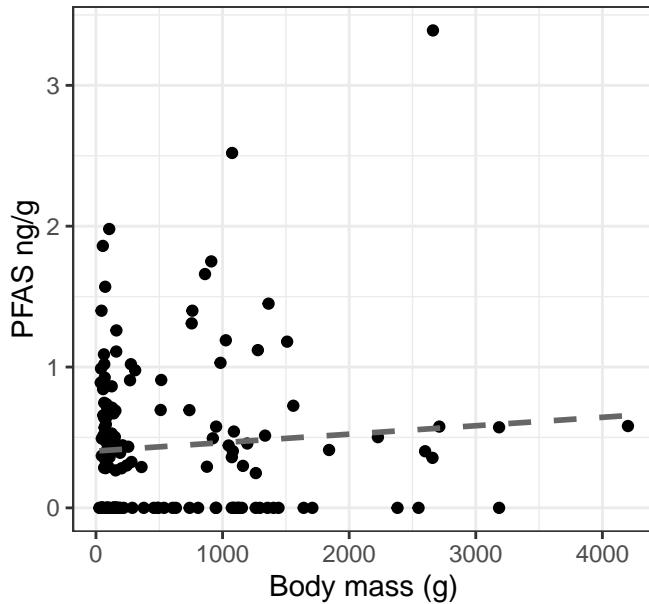


Figure 14: Figure 14. PFAS profiles species in Western Bay region separated by year. A: PFAS in water. B: PFAS profile in each species.



**A PFDA**



**B PFDA**

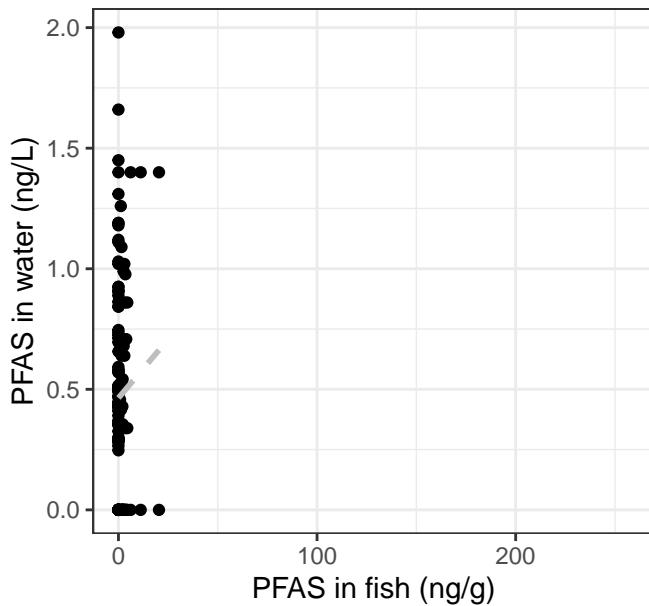


Figure 16: Figure 16. The relationship between A: body mass and PFDA tissue concentrations, and B: the PFDA in fish tissue and water

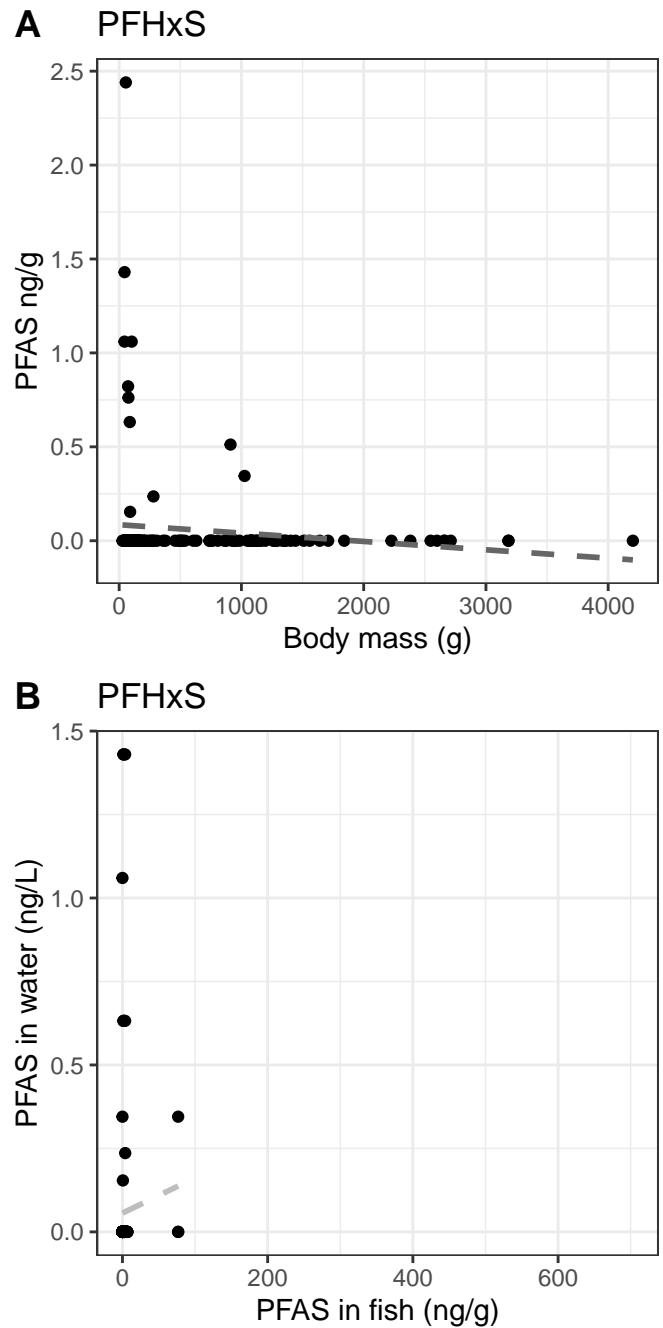
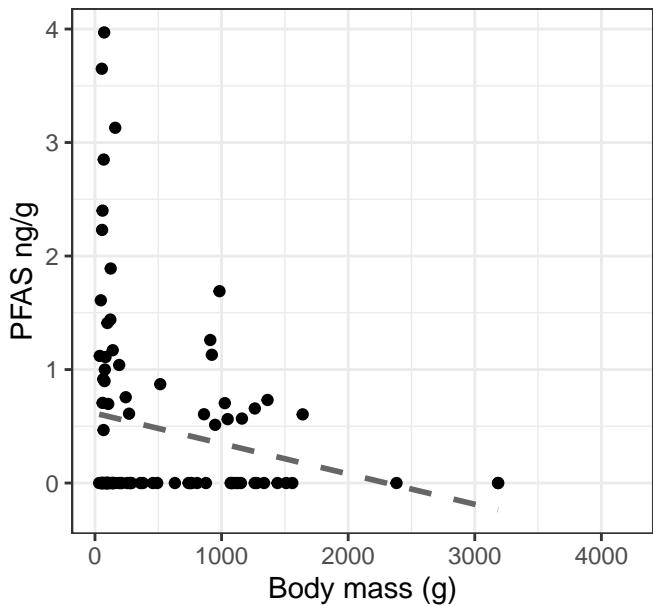


Figure 17: Figure 17. The relationship between A: body mass and PFHxS tissue concentrations, and B: the PFHxS in fish tissue and water

**A PFODA**



**B PFODA**

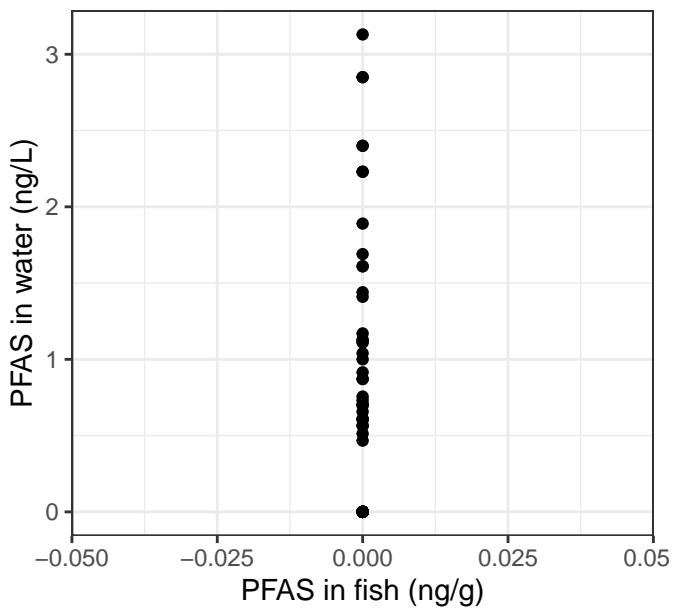
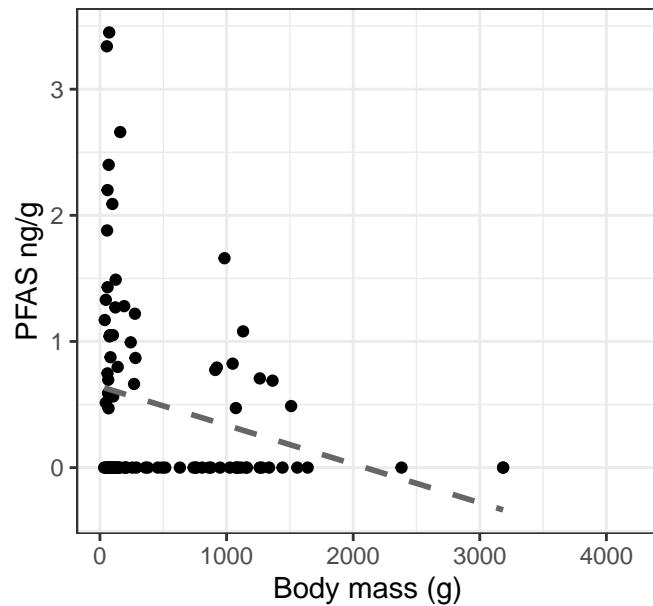


Figure 18: Figure 18. The relationship between A: body mass and PFODA tissue concentrations, and B: the PFODA in fish tissue and water

**A** PFTrDA



**B** PFTrDA

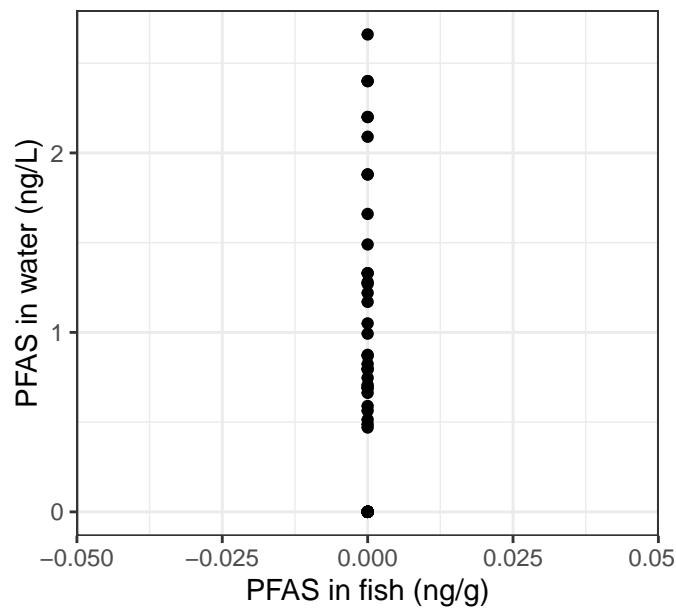


Figure 19: Figure 19. The relationship between A: body mass and PFTrDA tissue concentrations, and B: the PFTrDA in fish tissue and water