



Michigan Department of Health and Human Services (MDHHS)

DIVISION OF ENVIRONMENTAL HEALTH
TOXICOLOGY AND RESPONSE SECTION



MDHHS's Role = Provide Support to Local Health

- Evaluate potential exposures to environmental chemicals
- Determine if harm may occur
- Provide recommendations
- Outreach to public, healthcare, others

PFAS (PFC) Toxicology

- ▶ PFOA

- ▶ “C8 Study” probable links

- ▶ Animal research

- ▶ PFOS

- ▶ Human epidemiological associations

- ▶ Animal research

- ▶ Other PFAS = not as much data as PFOA and PFOS

EPA's Health Advisory Levels

- ▶ “Lifetime” Health Advisory (set 5/19/2016)
 - ▶ PFOA + PFOS = 70 ppt (ng/L)
 - ▶ Short-term and long-term exposure
- ▶ Protecting fetus and against cancer/noncancer effects

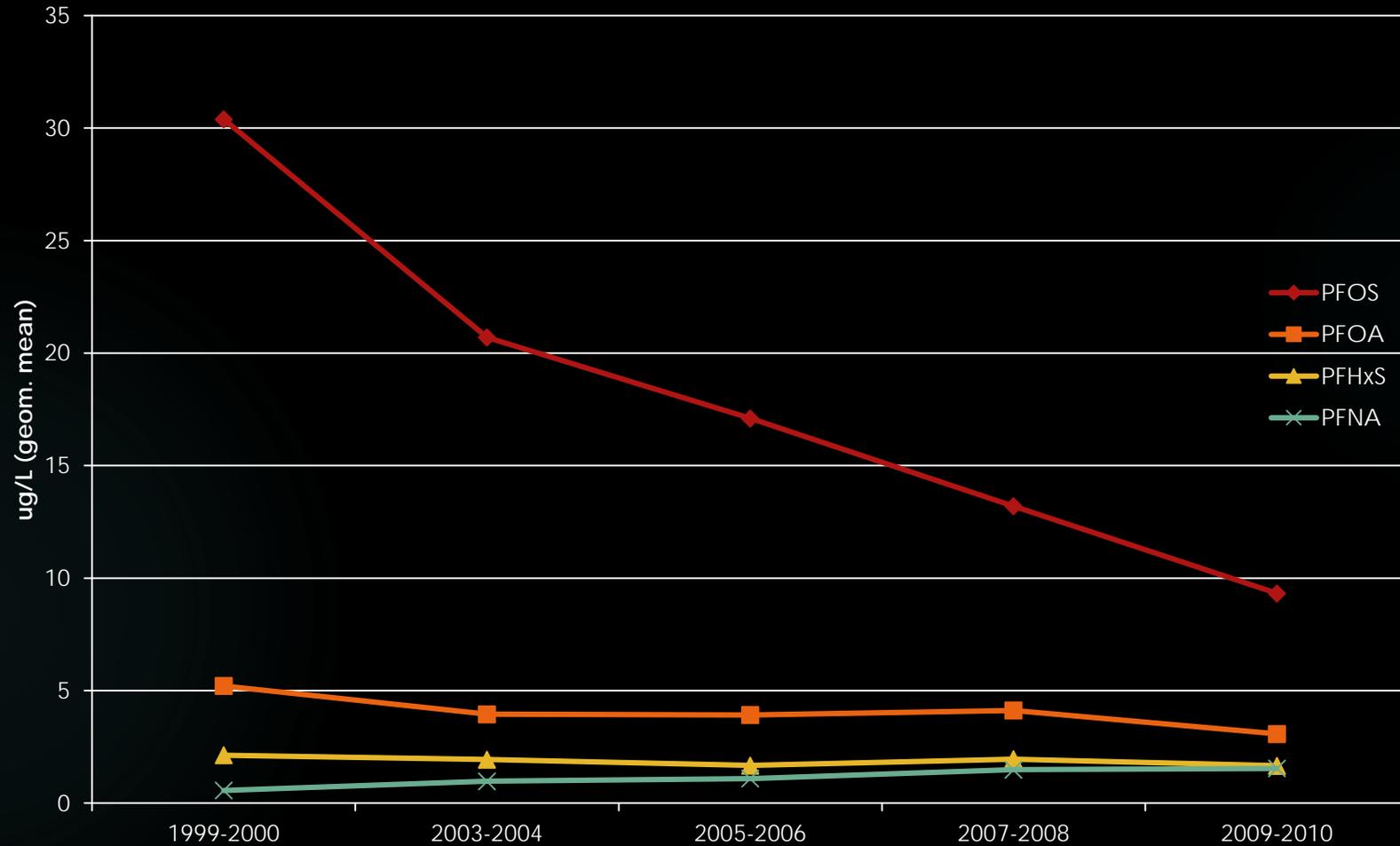
What About Michigan, Other States?

- ▶ Michigan = not yet finalized
- ▶ New Jersey = 14 ppt for PFOA, no value for PFOS yet
- ▶ Vermont = 20 ppt for PFOA and PFOS
- ▶ Minnesota = 35 ppt for PFOA, 27 ppt for PFOS

Blood Testing

- ▶ PFAS are in many products commonly used
- ▶ People would be expected to have some level of PFAS in their blood
- ▶ Blood test CAN tell you:
 - ▶ Concentration in blood at time of test
- ▶ Blood test CANNOT tell you:
 - ▶ If a current or future health condition is due to PFAS in body
 - ▶ Where the PFAS came from

PFAS – National Exposure Report (NHANES)



More Information

- ▶ Christina Bush, MDHHS Toxicologist
 - ▶ 800-648-6942
 - ▶ bushc6@michigan.gov
- ▶ <http://www.atsdr.cdc.gov/pfc>