

Community Concerns & Challenges: Health



Photo: Courtesy of *The Intelligencer*

Our Children's Health



Community Concerns & Challenges: Protection of Our Children's Health

Certain PFAS:

- ✓ Cross the placenta & have been detected in human breast milk
- ✓ Affect growth, learning, and behavior in infants and older children
- ✓ Associated with dyslipidemia, renal function, and early puberty in children

Prenatal exposure to PFOA/PFOS associated with:

- ✓ Immune-related problems, such as asthma and reduced vaccine effectiveness, in early childhood.



**REDUCING
ENVIRONMENTAL
CANCER RISK**

What We Can Do Now

A Financial Glimpse



PADOH Pilot Biomonitoring Results for our Community

■ U.S. levels
■ Levels in Horsham, Warminster, and Warrington

| PFAS chemical | Average levels | 95th-percentile levels |
|---------------|--------------------------------|---------------------------------|
| PFOA | U.S.: 1.98 Community: 3.32 | U.S.: 5.60 Community: 9.99 |
| PFOS | U.S.: 5.22 Community: 11.50 | U.S.: 19.50 Community: 36.25 |
| PFHxS | U.S.: 1.36 Community: 7.63 | U.S.: 5.50 Community: 48.05 |
| PFNA | U.S.: 0.69 Community: 0.78 | U.S.: 2.00 Community: 1.61 |
| PFDeA | U.S.: 0.19 Community: 0.36 | U.S.: 0.80 Community: 0.53 |
| PFHpA | * Community: 0.35 | U.S.: 0.10 Community: 0.35 |
| MeFOSAA | * Community: 0.36 | U.S.: 0.60 Community: 0.35 |
| PFUA | 0 Community: 0.36 | U.S.: 0.50 Community: 0.35 |

* Not calculated because not enough people had results that were detectable

National Contamination Comparison

| | People Tested | Cost | Who Paid? | Median Blood Level | Highest Water Level |
|----------------------------------|---------------|----------------|-------------------------------|-----------------------------------|-------------------------|
| Mid-Ohio Valley | 69,000 | \$70 million | DuPont | 28 ppb (PFOA) | 18.6 ppb (PFOA) |
| Hoosick Falls, New York | 3,000 | \$3 million | State | 23.5 ppb (PFOA) | 0.662 ppb (PFOA) |
| Pease, New Hampshire | 1,600 | Est. \$337,500 | CDC/State | 8.9 ppb (PFOS)/3.2 ppb (PFOA) | 2.85 ppb (PFOA & PFOS) |
| Warminster, Warrington & Horsham | 250 | \$175,000 | Grant to state from CDC/ATSDR | 11.5 ppb (PFOS)*/3.32 ppb (PFOA)* | 15.18 ppb (PFOA & PFOS) |
| National | 5,000 | - | - | 5.22 ppb (PFOS)*/1.98 ppb (PFOA)* | - |

*Averages

Sources: C8 Science Panel and Attorney Rob Bilott; New York State Department of Health; City of Portsmouth; New Hampshire Department of Health and Human Services; Horsham Air Guard Station: Pennsylvania Department of Health; U.S. Centers for Disease Control and Prevention.



Graphic courtesy of *The Intelligencer*

Community Concerns & Challenges: Lack of Enforceable Regulations



“Nothing about us without us”