



Community Update

NE West Plains PFAS Sampling

6/6/24 – ONLINE MEETING

Agenda



What are PFAS?



Project summary



How to interpret your sampling results



Next steps



Questions & Answers

What are PFAS?

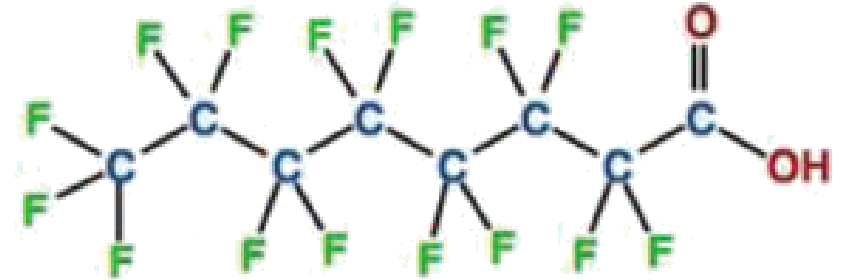
PFAS = **P**er- and poly**F**luoro**A**lky**S**ubstances

Over 12,000+ human-made chemicals

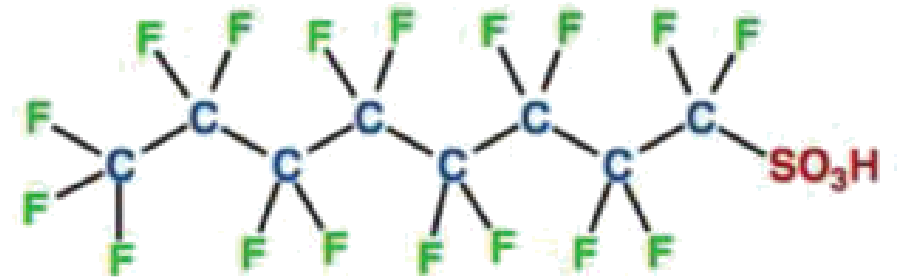
Used in a lot of products

- Non-stick cookware
- Water-proof apparel
- Fast food wrappers
- Firefighting foam (AFFF)

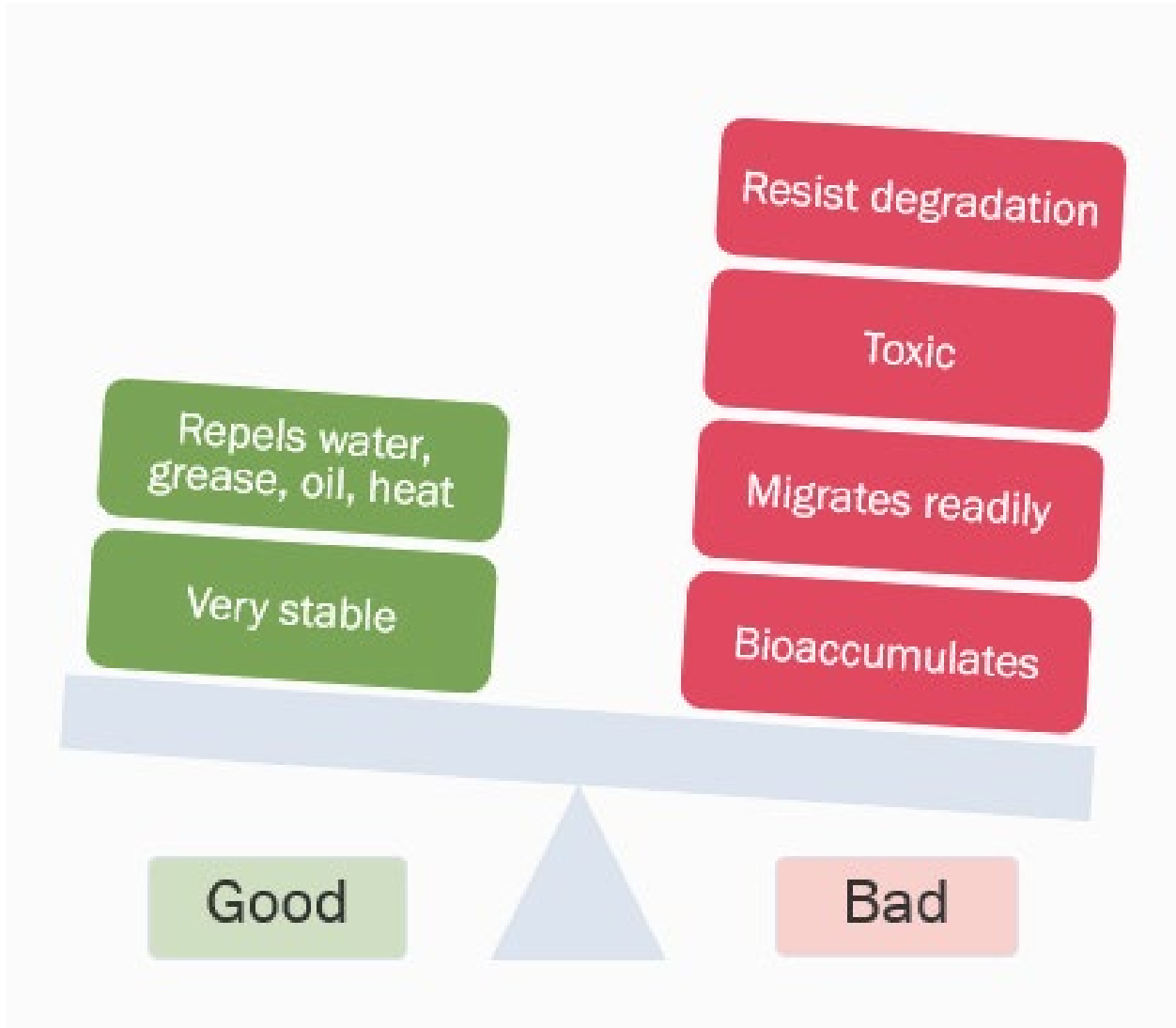
PFOA and PFOS most common



PFOA - perfluorooctanoic acid



PFOS - perfluorooctanesulfonic acid



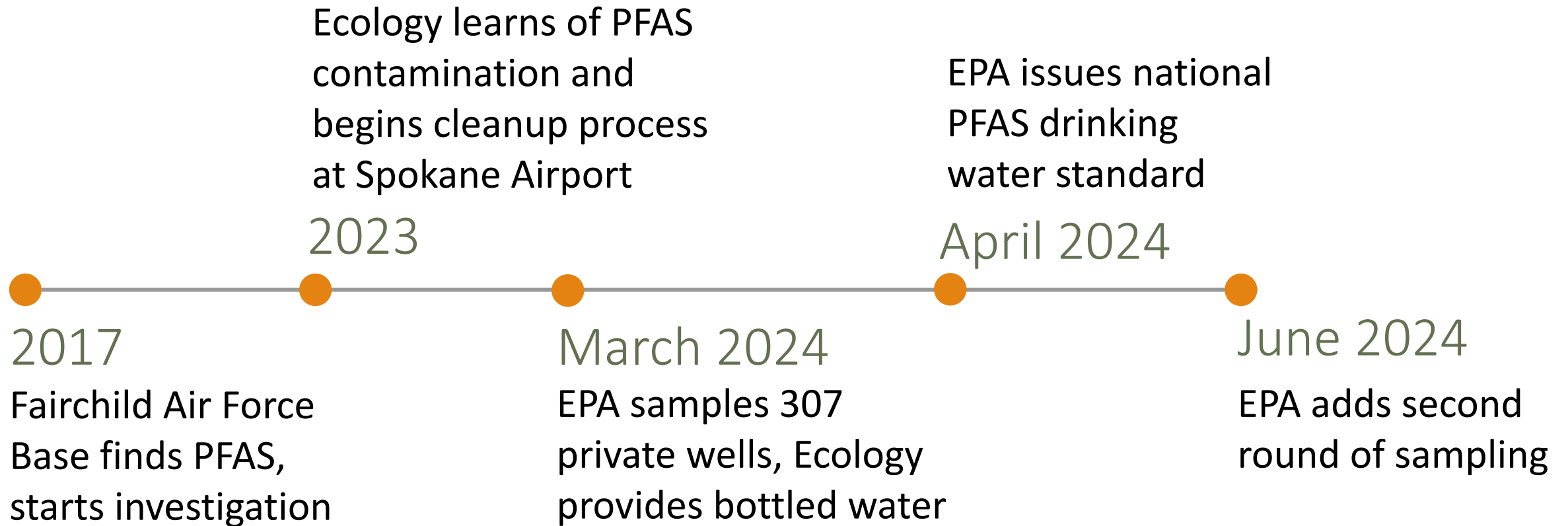
Issues with PFAS

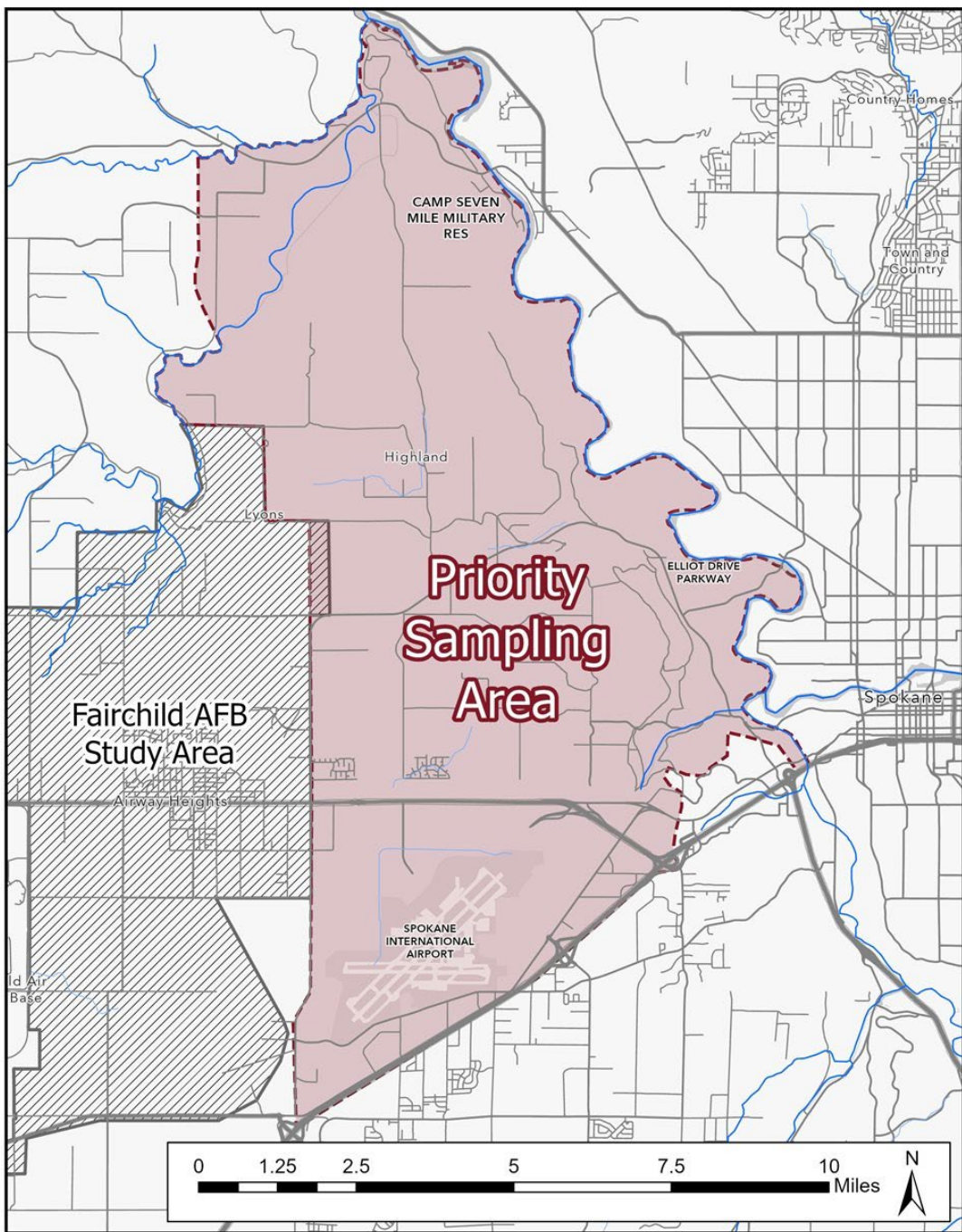
Health effects

- Cancer (prostate, kidney, testicular)
- Reproductive effects
- Developmental effects/ delays in children
- Reduced immune and vaccine response
- Hormonal interference

Vulnerable populations

PFAS in the West Plains: A timeline





Photos from March 2024 NE West Plains Sampling Effort
 Photo Source: U.S. EPA

Sample result type	Number of locations	Percent of locations
Wells that don't have PFAS	91	30%
Wells with PFAS below drinking water standards	44	14%
Wells with PFAS above drinking water standards*	172	56%
Total	307	100%

*If one has been set.

Summary of PFAS Levels by Quarter Section

Results from March 2024 West Plains Sampling Event

- No PFAS found
- PFAS found below drinking water standards
- At least one PFAS compound found at levels 1 to 5 times the drinking water standard
- At least one PFAS compound found at levels 5 to 10 times the drinking water standard
- At least one PFAS compound found at levels 10 to 20 times the drinking water standard
- At least one PFAS compound found at levels more than 20 times the drinking water standard

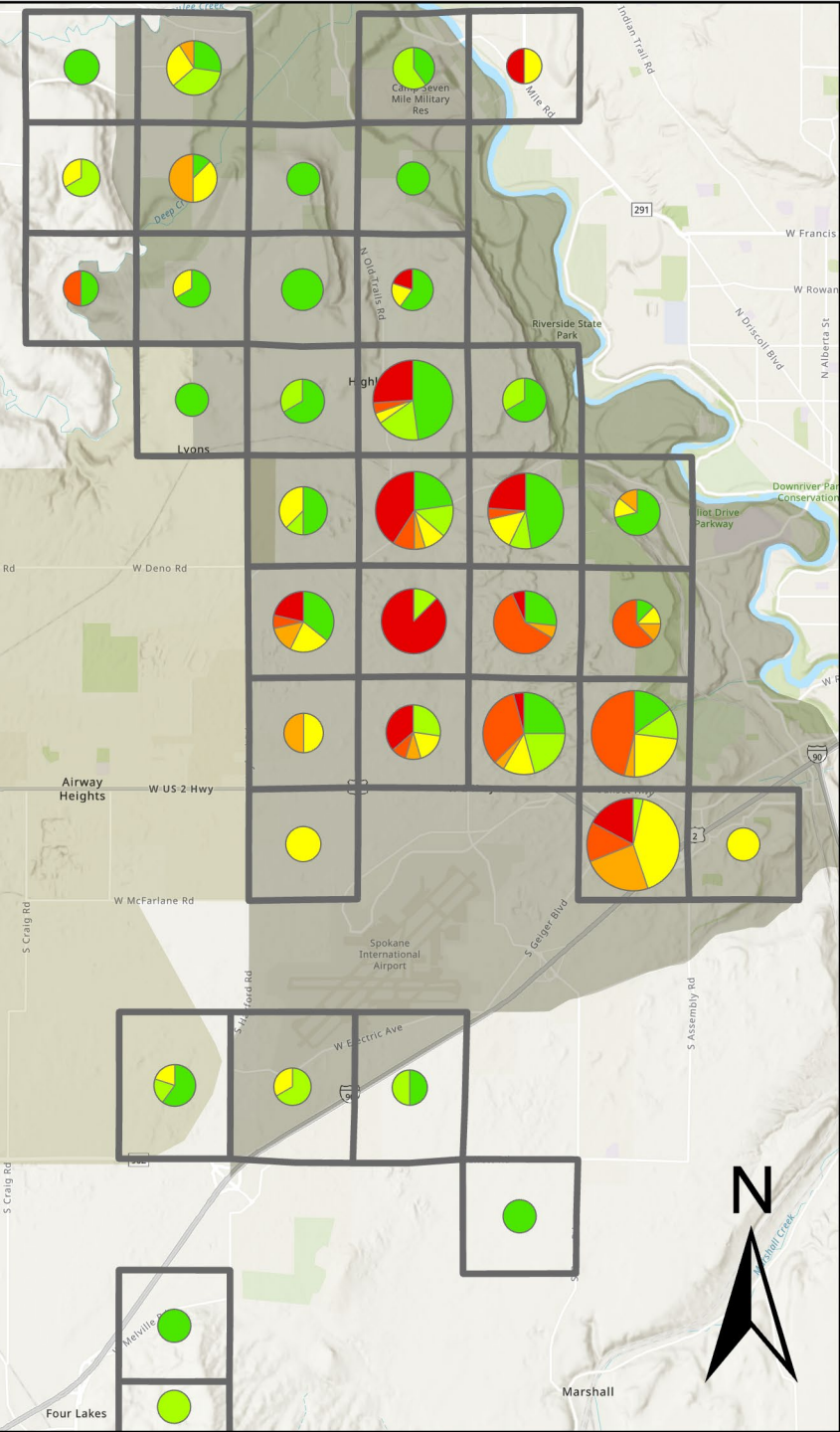
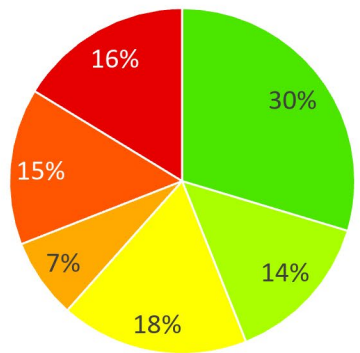
Number of Samples Collected



Map Shading

- EPA Sampling Area
- Fairchild AFB Study Area

PFAS Levels in 307 Wells Sampled



2024 Northeast West Plains Drinking Water Sample Results Table

Station ID: [REDACTED]

Reported State Well ID: [REDACTED]

Sample Number: [REDACTED]

Reported Well Depth: [REDACTED]

Sample Date: [REDACTED]

Well Address: [REDACTED]

Sample Media: Drinking Water

Well Latitude, Longitude: [REDACTED]

Sample Analysis: EPA Method 533: Determination of PFAS Substances in Drinking Water

Analyte	Abbreviation	CAS	Site-Specific Action Level	Your Sample Results
Perfluorooctanesulfonic acid	PFOS	1763-23-1	4 ^a	190
Perfluorooctanoic acid	PFOA	335-67-1	4 ^a	29
Perfluorononanoic acid	PFNA	375-95-1	9 ^b	2.8
Perfluorohexanesulfonic acid	PFHxS	355-46-4	10 ^a	160
Perfluorobutanesulfonic acid	PFBS	375-73-5	345 ^b	14
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6	10 ^a	1.8 U
Perfluoroundecanoic acid	PFUnA	2058-94-8	--	1.8 U
Perfluoropentanesulfonic acid	PFPeS	2706-91-4	--	15

How it looks*	What it means
7.4	Sample was ABOVE the drinking water standard.
3.2	PFAS compound was found in the sample but was below the drinking water standard (if one is set).
1.7 U	PFAS was not found (non-detect).

*Numeric values are examples. The cell formatting and “U” show how to interpret your results.

Please share your results with Ecology

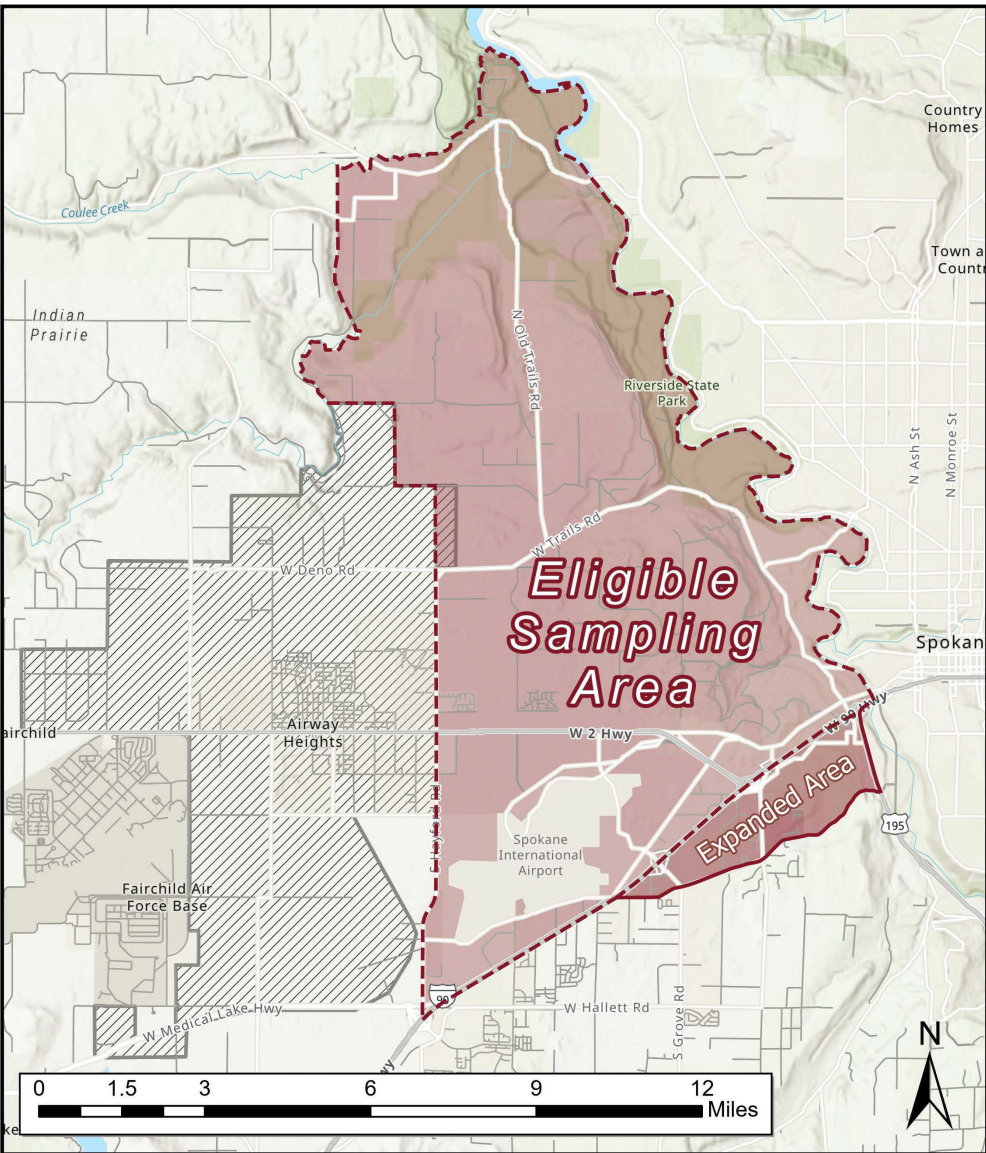
- ✓ Provide safe water to people with PFAS above drinking water standards.
- ✓ Map the area of known contamination and share this resource.
- ✓ Help define additional source areas.

Drinking Water Sampling: Round 2

Request Form open until we receive 125 eligible sample requests *or* June 18 (whichever comes first).

This is the last planned sampling event.

Sampling to begin June 11.



2024 Northeast West Plains Follow-up Sampling
West Plains Spokane County, WA
May 2024

- Eligible Sampling Area
- Approximate Fairchild AFB Study Area

Known Common Concerns



Questions?

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<https://doh.wa.gov/pfas>

<https://ecology.wa.gov/west-plains>

<https://www.epa.gov/pfas>