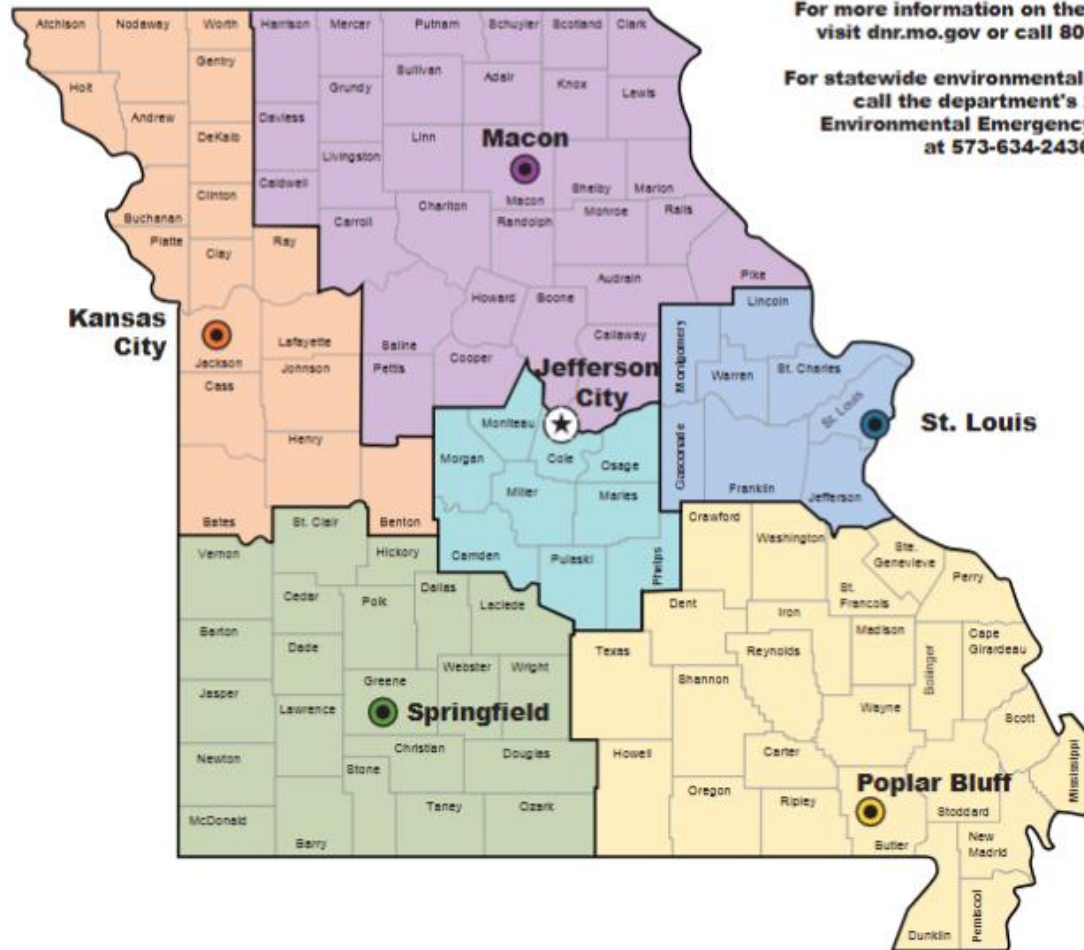




MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

PFAS TEMPERATURE CHECK

Randall Willougby, CHMM
Water Pollution Section Chief
Southwest Regional Office



For more information on the department,
visit dnr.mo.gov or call 800-361-4827.

For statewide environmental emergencies,
call the department's 24-hour
Environmental Emergency Response
at 573-634-2436.

What We Do - A Highlight

Facility Inspections
Concern Investigations
General Permitting

**Compliance Assistance – We are here to help. On-site or off.
Your Patient Advocate...**

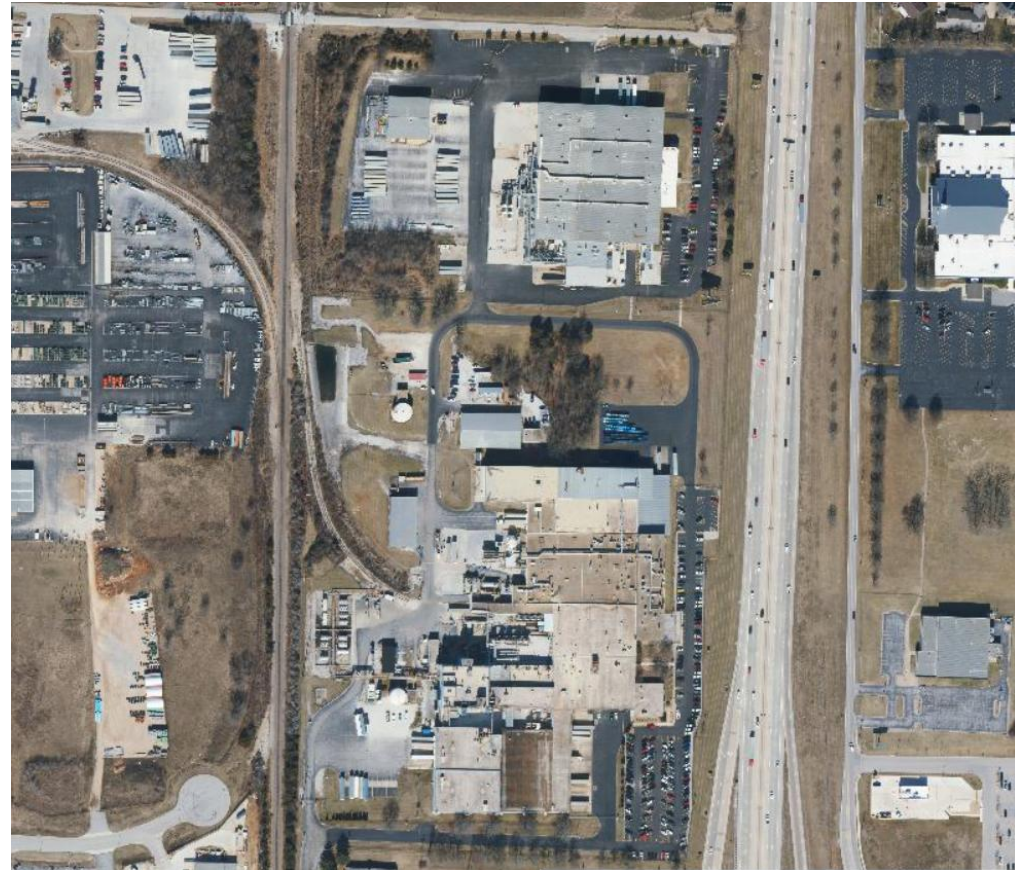
Understanding Patient Background

You may not directly make or use PFAS compounds in your operation, but have you thought about the systems that made/make up your facility itself?

- Exposure from others
- Secondhand
- Cleaning
- Maintenance

What about fires and fire safety

NFPA 13, 25 and 72



Wellness Check

- Ask all the questions and think outside the box..
- Fire Suppression System Coverage Areas-
 - Containments Structures
 - Production Lines
 - Warehouse/storage
- What about your circulatory system? Where are the drains and where do they come from and go?
 - Stormwater Basins
 - Containment Structures
 - Sanitary Sewer

The Lab Work

A local industrial facility conducted analysis of their various discharges.

- Identified detectable levels of PFAS, primary source being the Fire Suppression System Testing and Training

Initial testing of the system showed levels up to ~53,000ppt

Stormwater Levels near 2,000ppt

Symptom Management

Following their findings implemented a granulated activated carbon (GAC) system

Treatment was to target the health advisory level. Noted results down to <2 ppt

Continued sampling, investigations, repairs and BMP improvements.

Introducing Dr. Murphy...

Doctor's Advice

- Understand your facility
- Ask the questions
- Conduct investigations and analyses
- Develop an approach for any corrective actions

Traditionally the discharge of water resulting from fire fighting activities is exempt, however, standard/routine testing of suppression systems is not the same.

COMING SOON...stay tuned.

Department PFAS - Contaminant
Spotlight



Department PFAS Publication 2803



Other Helpful Links

Missouri PFAS Web Viewer



EPA – PFAS Website



Questions?