



IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

Per and Poly Fluoroalky Substances

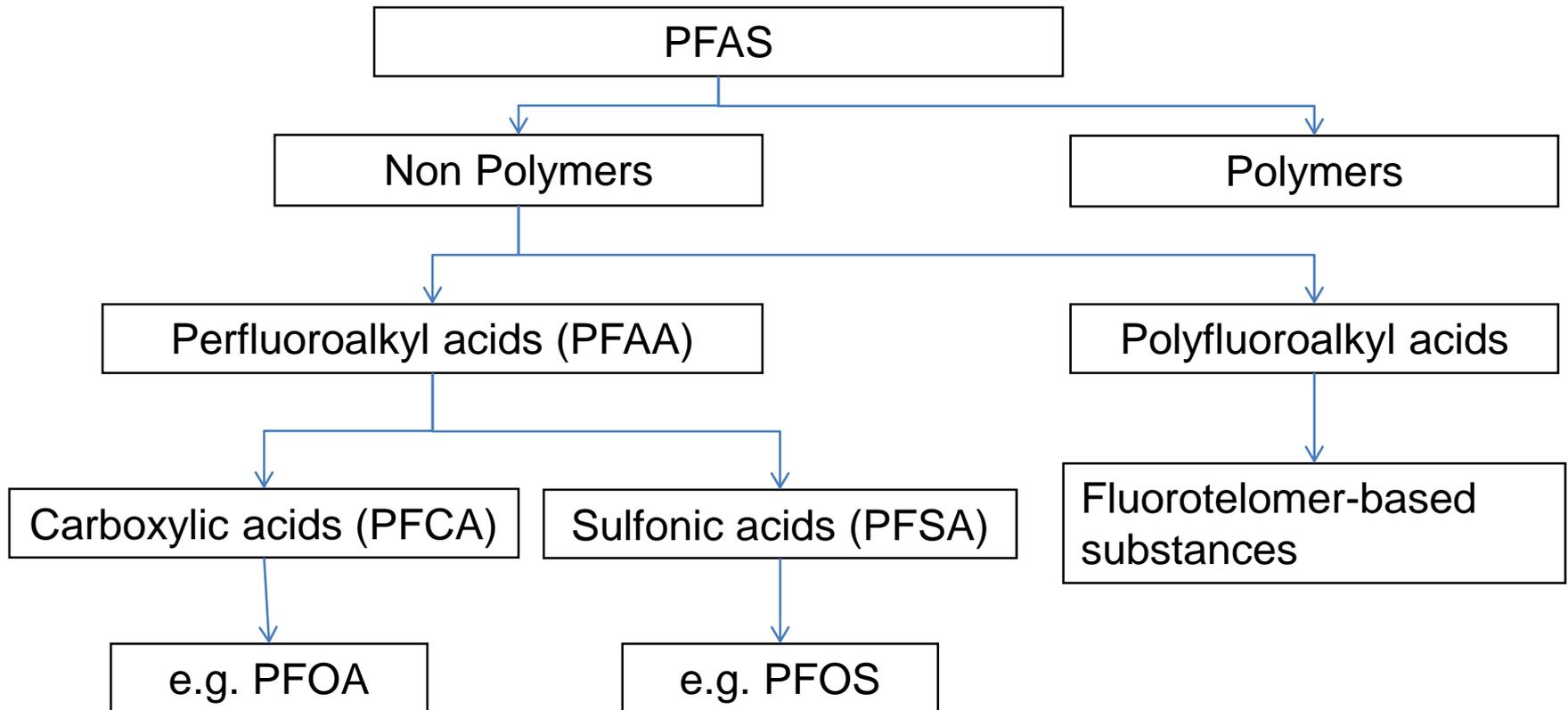
By

Roger Bruner

Why is PFAS Important?

- PFAS are a family of more than 4,000 synthetic fluorinated organic compounds
- Due to unique chemical and physical properties it has been extensively manufactured and used worldwide in commercial and industrial products
- Research indicates unacceptable human health effects or environmental risks
- The science is rapidly evolving
- No nationally accepted clean-up standards established or regulatory standards are evolving due to
 - New science
 - Better detection capabilities
 - Or both

PFAS subgroups (acronym soup)



The Department wants to be Data Driven

- Unregulated Contaminant Monitoring Rule
 - EPA uses UCMR to collect exposure data for unregulated contaminants suspected to be in drinking water
- Third round (UMRC 3) - 2013 and 2015
 - included a few PFAS compounds
- 4,920 PWSs sampled nationwide
 - 0.9% and 0.3% of PWS above USEPA HALs (PFOS and PFOA) nationally
 - No PWS in Iowa with detections
- Next UCMR (UCMR 5) -2021
 - will include more PFAS compounds using lower detection limits

Iowa's experience to date

FINAL

SITE INSPECTION REPORT
FOR
PERFLUOROOCTANE SULFONATE AND
PERFLUOROOCTANOIC ACID
AT
DES MOINES AIR NATIONAL GUARD BASE
DES MOINES, IOWA



132nd Wing
Des Moines Air National Guard Base
Des Moines, Iowa

March 2019



DRAFT
SAMPLING AND ANALYSIS PLAN
FY17 WELL SAMPLING AND
PROVISION OF ALTERNATE
WATER SUPPLY AT MULTIPLE AIR NATIONAL
GUARD BASES

185th AIR REFUELING WING
GATEWAY AIRPORT/COLONEL BUD DAY FIELD
SIOUX CITY AIR NATIONAL GUARD BASE
SIOUX CITY, IOWA

Contract #: W9133L-14-D-0002
Delivery Order 0010
Structure Solutions, Inc. Project #: 2-9133-0010
May 24, 2019

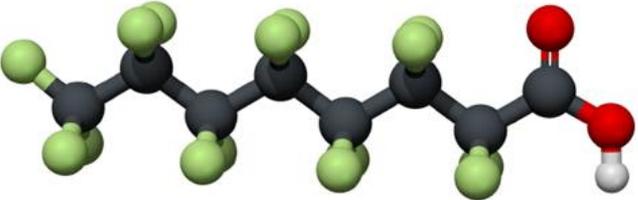
Nation-wide Impacts



Department's Action Plan

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KAYLA LYON, DIRECTOR

PFAS Action Plan



An example of a family of Perfluoroalkyl Substances: Perfluorooctanoic acid

January 23, 2020

 WWW.IOWADNR.GOV



Screenshot of the Iowa Department of Natural Resources website showing the PFAS Action Plan page. The page title is "PFAS Action Plan". The content includes:

PFAS Action Plan

The Iowa Department of Natural Resources (DNR) has developed this action plan to protect the health of Iowa residents and the environment from a class of chemicals of emerging concern known as per- and polyfluoroalkyl substances (commonly referred to as PFAS). These chemicals were used in such products as non-stick coatings, carpet, clothing, fabrics for furniture, paper packaging for food, chrome plating, and some firefighting foams.

DNR takes the risks from these "forever chemicals" to human health and the environment very seriously. The existing body of scientific literature suggests that exposure to these compounds may result in health effects such as developmental defects in fetuses and infants as well as certain types of cancer. Based on sampling data to date, the presence of PFAS in drinking water in the state of Iowa is minimal. While other states have moved ahead with significant regulatory initiatives due to the high levels of known PFAS contamination in those states, the scope of the problem in Iowa appears to be lower at this point. However, in order to address this risk, DNR is moving forward with this action plan as a first step toward developing a comprehensive response plan.

Additional Resources

- Interstate Technology and remediation Council (ITRC) Per- and Polyfluoroalkyl Substances Fact Sheets
- Iowa DNR Drinking Water Health Advisories
- EPA's PFAS website
- EPA's PFAS Drinking Water Treatment Advisories
- EPA's PFAS Action Plan website
- EPA's PFOA/PFOA Fact Sheet
- EPA's Drinking Water Health Advisories for PFOS and PFOA website
- EPA's UCMR3 PFOS and PFOA data website
- EPA's Stewardship program for PFAS related to Toxic Substances Control Act (TSCA) website

Questions?

