Statewide Per and Polyfluoroalkyl Substances (PFAS) Monitoring Update
Health Advisory Panel, December 11, 2019
EPA Takes Aim at PFAS

PFAS, or poly- and perfluoroalkyl substances, have become notorious as drinking water contaminants. They are used in a wide range of products and our exposure comes from multiple sources and routes. The two most common forms of PFAS are perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). DEQ will work with our water systems once the EPA action plan is finalized to determine if there are PFAS levels of concern that are affecting drinking water sources in the Utah.

On February 14, 2019, EPA established health advisories for PFOA and PFOS based on the agency’s assessment of the latest peer-reviewed science. EPA is committed to supporting states and public water systems as they determine the appropriate steps to reduce exposure to PFOA and PFOS in drinking water. As science on health effects of these chemicals evolves, EPA will continue to evaluate new evidence.

**Health Effects**

Exposure to these compounds has been linked to a number of health concerns including cancer, hormone disruption, liver and kidney toxicity, harm to immune system, and reproductive and development toxicity.

**Sources of Contamination**

Many products are made with these compounds, including: food packaging; chemicals used for stain-resistant carpets, rugs, and furniture; non-stick cookware; outdoor gear with a “durable water repellent” coating; aerospace, medical, and automotive applications; and many specialty items such as firefighting foams, ski wax, and industrial applications.

**Drinking Water**

Initial testing of some water systems in 2013-2015 revealed an estimated six million U.S. residents with drinking water supplies contaminated with PFAS. To provide Americans with a margin of protection from a lifetime of exposure to PFAS from drinking water, EPA has established the health advisory levels at 70 parts per trillion.
Background

Sources of PFAS

- Aqueous film forming foam (AFFF)
- Industrial Sources
- Wastewater Treatment Plants (Biosolids)
- Landfills
DEQ Sampling Plan

- DWQ Working with other Divisions
- Prioritized locations:
  - AFFFs
  - Commercial/Industrial Uses
- Geographic proximity to drinking water wells
- Propose to sample 26 DWS
  - 161 Sources/Wells
Next Steps

Sampling and Analysis Plan
- Currently under internal review
- Public Comment Period (Late January/Feb)

Future Steps:
- Surface Waters
- Fish/Waterfowl Tissue
- Biosolids
- Other Human Exposure Pathways