

## Notes and Facts on PFOS/PFOA Perfluorooctane sulfonic acid (PFOS)

### Perfluorooctanoic acid (PFOA)

PFOS/PFOA are included in the fourth Unregulated Contaminant Monitoring Rule (UCMR 4) that was published on 12/20/16. It requires monitoring for 30 chemical contaminants, including PFOS/PFOA, between 2018 and 2020. This is an EPA requirement

“EPA’s assessment indicates that drinking water with individual or combined concentrations of PFOA and PFOS below 70 parts per trillion is not expected to result in adverse health **effects over a lifetime of exposure**” For more info from the EPA and its statement on PFOS and PFOA, visit this link <https://blog.epa.gov/blog/2016/05/protection-for-drinking-water/>

Important to note: The groundwater results all came back lower than the HAL for drinking water. Regarding the EPA standards issue - As a benchmark, the Environmental Protection Agency has established a provisional health advisory level (HAL) for drinking water regarding these compounds, which is 70 parts per trillion (ppt).

Additional testing/monitoring information can be found by visiting <https://www.epa.gov/dwucmr/fourth-unregulated-contaminant-monitoring-rule> or <https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos> or contact EPA’s contractor Great Lakes Environmental Center, Inc. at 800-949-1581 or UCMR4@glec.com.

Understanding HAL is important PFOA and PFOS drinking water HAL = 70 parts per trillion. HAL = “Health advisories provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water. EPA's health advisories are non-enforceable and non-regulatory and provide technical information to states agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination. EPA’s health advisory level for PFOA and PFOS offers a margin of protection for all Americans throughout their life from adverse health effects resulting from exposure to PFOA and PFOS in drinking water.”

### IFAS information

<http://edis.ifas.ufl.edu/pdf/files/SS/SS63100.pdf>

PFASs comprise a group of highly resistant manmade chemicals that can have deleterious effects on the environment and possibly on humans. The production of PFASs in the United States has been reduced, but they are still present in many domestic and industrial applications. **For humans, main routes of PFAS exposure are diets containing fish and prepared food** (packaging material). Water can also be an important source in areas with high concentration of PFASs in drinking water. Among all PFASs, PFOS is the most common and represents the greatest concern to human health and environment. Toxicity to liver and lipid metabolism alteration are the most frequently reported toxic outcomes from experimental tests. Cancer

(tumor growth) has been observed in experimental animals chronically exposed to PFASs. Recent immunotoxic and neurotoxic findings in laboratory animals call for further epidemiological research in humans. Most of the current research is from laboratory animals exposed to single PFASs (mainly PFOS). **Thus, a complete assessment of current risk considering mixtures of PFASs is not yet possible.** In the meantime, to reduce self-exposure and reduce your PFASs contribution to the environment, avoid use of products containing PFASs in households and avoid the consumption of food that has been in contact with PFASs via their packaging (e.g., microwave popcorn and pizza)

### Department of Health Information

How likely are PFOS and PFOA to cause cancer?

The U.S. EPA has determined that there is some evidence that PFOA can cause cancer in humans. Animal and human studies indicate that PFOA may cause liver, pancreatic, testicular, or kidney cancer. The International Agency for Research on Cancer has determined that **PFOA is possibly carcinogenic** to humans. There is very limited information on the ability of PFOS to cause cancer.

<http://www.floridahealth.gov/environmental-health/drinking-water/documents/pfoa-pfos-fs-20161.pdf>

## Additional Contacts

### EPA Technical Contacts

Chris Impellitteri, [impellitteri.christopher@epa.gov](mailto:impellitteri.christopher@epa.gov) • Schatzi Fitz-James, [fitz-james.schatzi@epa.gov](mailto:fitz-james.schatzi@epa.gov)  
• Cynthia Caporale, [caporale.cynthia@epa.gov](mailto:caporale.cynthia@epa.gov)

### EPA Communications Contact

Michelle Latham, [latham.michelle@epa.gov](mailto:latham.michelle@epa.gov)

### DEP Contacts

Ashley L. Gardner Communications Specialist/Planning Analyst Central District – Orlando  
[ashley.gardner@dep.state.fl.us](mailto:ashley.gardner@dep.state.fl.us)  
Office: 407-897-2914

### Department of Health

<http://www.floridahealth.gov/> [AskEH@flhealth.gov](mailto:AskEH@flhealth.gov)

Barry Inman, Phone: 321-454-7106

### Florida Elected Officials

<u>United States Senators</u>	<u>United States Representative</u>	<u>Office of the Governor</u>
Office: 1-202-224-3014	Office: 1-202-225-3671	Office: 1-850-488-4441
District: 1-407-254-2573	District: 1-321-632-1776	
Office: 1-202-224-5273		
District: 1-407-872-7161		

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#### **DEP Contacts**

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Phoslab Environmental Laboratories, Inc.	<b>Phone:</b> (863) 682-5897	<a href="http://www.phoslab.com/">http://www.phoslab.com/</a>	<u>Address: 806 W Beacon Rd, Lakeland, FL 33803</u>
Alltech Water Co	<b>Phone:</b> (772) 664-4627	<a href="http://www.watertreatmentbrevard.com/">http://www.watertreatmentbrevard.com/</a>	<u>Address: Sebastian, FL 32976</u>
Sanders Laboratories Inc	<b>Phone:</b> (941) 488-8103	<a href="https://sanderslabs.net/">https://sanderslabs.net/</a>	<u>Address: 1050 Endeavor Ct, North Venice, FL 34275</u>
EMLab P&K Florida Mold, Legionella & Asbestos Laboratory	<b>Phone:</b> (856) 334-1002	<a href="https://www.emlab.com/">https://www.emlab.com/</a>	<u>Address: 6301 NW 5th Way #1410, Fort Lauderdale, FL 33309</u>
Benchmark EnviroAnalytical, Inc	<b>Phone:</b> (941) 625-3137 9417239986 benchmark in palmetto	<a href="https://www.benchmarkea.com/">https://www.benchmarkea.com/</a>	<u>Address: 1001 Corporate Ave #102, North Port, FL 34289</u>
Inx Laboratories Inc.	<b>Phone:</b> (800) 786-6254	<a href="http://inxlab.com/">http://inxlab.com/</a>	<u>Address: 655 FL-50 #105, Clermont, FL 34711</u>
Florida Environmental Laboratories	<b>Phone:</b> (239) <b>465-6313</b>		<u>Address: 1852-A 40th Terrace SW, Naples, FL 34116</u>
Greenwater Laboratories	<b>Phone:</b> (386) 328-0882	<a href="http://greenwaterlab.com/">http://greenwaterlab.com/</a>	<u>Address: 205 Zeagler Dr, Palatka, FL 32177</u>
Tetra Tech	<b>Phone:</b> (321) 632-2503	<a href="http://www.tetrattech.com/">http://www.tetrattech.com/</a>	<u>Address: 1300 N Cocoa Blvd, Cocoa, FL 32922</u>
Universal Engineering	<b>Phone:</b> (321) 638-0808	<a href="http://universalengineering.com/">http://universalengineering.com/</a>	<u>Address: 820 Brevard Ave, Rockledge, FL 32955</u>
Elite Analysis	<b>Phone:</b> (407) 595-9844	<a href="http://eliteanalysis.com/">http://eliteanalysis.com/</a>	<u>Address: 3211 S Osceola Ave, Orlando, FL 32806</u>
Quality Analytical Laboratories	Phone: (850) 872-9595	<a href="http://www.qal.net/">http://www.qal.net/</a>	<u>Address: 2814 W 15th St, Panama City, FL 32401</u>
Brevard soil and water conservation district	<b>Phone:</b> (321) 633-1702 ext. 232	<a href="https://brevardsoilandwater.org/">https://brevardsoilandwater.org/</a>	<u>Address: 3695 Lake Dr, Cocoa, FL 32926</u>
Partner ESI.	732.380.1700 <i>phone</i>	<a href="mailto:info@partneresi.com">info@partneresi.com</a>	800.419.4923 <i>phone</i>

**A List of the Labs that have information on or do the testing of PFOS and PFOA**

<b>Name</b>	<b>number</b>	<b>website</b>	<b>location</b>
University of Florida Soil and Water Sciences	<b>Phone:</b> (352) 294-3151	<a href="https://soils.ifas.ufl.edu/">https://soils.ifas.ufl.edu/</a>	Address: 1692 McCarty Dr, Gainesville, FL 32603
Water Shed Lab Inc	Phone: (386) 736-3397	<a href="http://www.watershedlab.com/">http://www.watershedlab.com/</a>	Address: 1692 McCarty Dr, Gainesville, FL 32603
Certified Water Technologies	<b>Phone:</b> (321) 222-3351		Address: Melbourne, FL
Aquatest Services, Inc.	<b>Phone:</b> (321) 728-5789		<u>Address: Palm Bay, FL</u>
Element Materials Technology	<b>Phone:</b> (321) 327-8985	<a href="https://www.element.com/">https://www.element.com/</a>	Address: 7780 Technology Dr, West Melbourne, FL 32904
<b>Marion Soil and Water Conservation</b>	<b>Phone:</b> (352) <b><u>622-3971</u></b>	<a href="http://marionsoilandwater.com/">http://marionsoilandwater.com/</a>	<b>Address: 2441 NE 3rd St #204, Ocala, FL 34470</b>
Marion County Water Test Lab	<b>Phone:</b> (352) 694-6042	<a href="http://www.marioncountywaterestlab.com/">http://www.marioncountywaterestlab.com/</a>	Address: 3940 SE 45th Ct, Ocala, FL 34480
Imanna Laboratory Inc	<b>Phone:</b> (321) 632-2008	<a href="https://www.imanna.com/">https://www.imanna.com/</a>	Address: 515, 4810, Gus Hipp Blvd, Rockledge, FL 32955
Diamond Systems LLC	<b>Phone:</b> (321) 223-7500	<a href="https://www.diamondsci.com/">https://www.diamondsci.com/</a>	Address: 625 Peachtree St Suite1, Cocoa, FL 32922
Any Lab Test Now	<b>Phone:</b> (321) 586-5227	<a href="https://www.anylabtestnow.com/franchises/west-melbourne-32904/?utm_source=google&amp;utm_medium=organic&amp;utm_campaign=gmb">https://www.anylabtestnow.com/franchises/west-melbourne-32904/?utm_source=google&amp;utm_medium=organic&amp;utm_campaign=gmb</a>	Address: 145 Palm Bay Rd NE #102, West Melbourne, FL 32904
Blackwater Testing, Inc	<b>Phone:</b> (561) 508-2830	<a href="http://www.blackwatertestin.com/">http://www.blackwatertestin.com/</a>	Address: 7341 Westport Pl #1A, West Palm Beach, FL 33413