

Lafayette Water Works - EPA UCMR 5 Sample Results

The Safe Drinking Water Act (SDWA) requires that once every five years EPA issue a list of unregulated contaminants to be monitored by public water systems (PWSs). The fifth Unregulated Contaminant Monitoring Rule (UCMR 5) was published on December 27, 2021. UCMR 5 requires sample collection for 30 chemical contaminants between 2023 and 2025 using analytical methods developed by EPA and consensus organizations. This action provides EPA and other interested parties with scientifically valid data on the national occurrence of these contaminants in drinking water. Consistent with EPA's PFAS Strategic Roadmap, UCMR 5 will provide new data that will improve EPA's understanding of the frequency that 29 PFAS (and lithium) are found in the nation's drinking water systems, and at what levels. The monitoring data on PFAS and lithium will help EPA make determinations about future regulations and other actions to protect public health under SDWA. The data will also ensure science-based decision-making, help EPA better understand whether these contaminants in drinking water disproportionately impact communities with environmental justice concerns, and allow the agency, states, Tribes, and water systems to target solutions.

During the months of February and August 2023 Lafayette Water Works collected samples at both points of entry to our distribution system for UCMR 5. The samples were then sent to a certified laboratory to be analyzed. In the tables below you will find the results of those samples. You can find more information about UCMR 5 here: <https://www.epa.gov/dwucmr/fifth-unregulated-contaminant-monitoring-rule>

| Abbreviation | Description |
|--------------|---|
| ND | Not Detected |
| RL | Reporting Limit |
| DF | Dilution Factor |
| UCMR | Unregulated Contaminant Monitoring Rule |

| Point of Entry 001 - Analyzed 02/28/23 | | | | | Point of Entry 001 - Analyzed 08/10/23 | | | | |
|--|--------|------|--------|----|--|--------|------|--------|----|
| Parameter | Result | Unit | RL | DF | Parameter | Result | Unit | RL | DF |
| UCMR5 533 - UCMR5 | | | | | UCMR5 533 - UCMR5 | | | | |
| 11CI-PF3OUdS | ND | ug/L | 0.0050 | 1 | 11CI-PF3OUdS | ND | ug/L | 0.0050 | 1 |
| 4:2FTS | ND | ug/L | 0.0030 | 1 | 4:2FTS | ND | ug/L | 0.0030 | 1 |
| 6:2FTS | ND | ug/L | 0.0050 | 1 | 6:2FTS | ND | ug/L | 0.0050 | 1 |
| 8:2FTS | ND | ug/L | 0.0050 | 1 | 8:2FTS | ND | ug/L | 0.0050 | 1 |
| 9CI-PF3ONS | ND | ug/L | 0.0020 | 1 | 9CI-PF3ONS | ND | ug/L | 0.0020 | 1 |
| ADONA | ND | ug/L | 0.0030 | 1 | ADONA | ND | ug/L | 0.0030 | 1 |
| HFPO-DA | ND | ug/L | 0.0050 | 1 | HFPO-DA | ND | ug/L | 0.0050 | 1 |
| NFDHA | ND | ug/L | 0.0200 | 1 | NFDHA | ND | ug/L | 0.0200 | 1 |
| PFBA | ND | ug/L | 0.0050 | 1 | PFBA | ND | ug/L | 0.0050 | 1 |
| PFBS | ND | ug/L | 0.0030 | 1 | PFBS | ND | ug/L | 0.0030 | 1 |
| PFDA | ND | ug/L | 0.0030 | 1 | PFDA | ND | ug/L | 0.0030 | 1 |
| PFDoA | ND | ug/L | 0.0030 | 1 | PFDoA | ND | ug/L | 0.0030 | 1 |
| PFEESA | ND | ug/L | 0.0030 | 1 | PFEESA | ND | ug/L | 0.0030 | 1 |
| PFHpA | ND | ug/L | 0.0030 | 1 | PFHpA | ND | ug/L | 0.0030 | 1 |
| PFHpS | ND | ug/L | 0.0030 | 1 | PFHpS | ND | ug/L | 0.0030 | 1 |
| PFHxA | ND | ug/L | 0.0030 | 1 | PFHxA | ND | ug/L | 0.0030 | 1 |
| PFHxS | ND | ug/L | 0.0030 | 1 | PFHxS | ND | ug/L | 0.0030 | 1 |
| PFMBA | ND | ug/L | 0.0030 | 1 | PFMBA | ND | ug/L | 0.0030 | 1 |
| PFMPA | ND | ug/L | 0.0040 | 1 | PFMPA | ND | ug/L | 0.0040 | 1 |
| PFNA | ND | ug/L | 0.0040 | 1 | PFNA | ND | ug/L | 0.0040 | 1 |
| PFOA | ND | ug/L | 0.0040 | 1 | PFOA | ND | ug/L | 0.0040 | 1 |
| PFOS | ND | ug/L | 0.0040 | 1 | PFOS | ND | ug/L | 0.0040 | 1 |
| PFPeA | ND | ug/L | 0.0030 | 1 | PFPeA | ND | ug/L | 0.0030 | 1 |
| PFPeS | ND | ug/L | 0.0040 | 1 | PFPeS | ND | ug/L | 0.0040 | 1 |
| PFUnA | ND | ug/L | 0.0020 | 1 | PFUnA | ND | ug/L | 0.0020 | 1 |
| UCMR5 537.1 - UCMR5 | | | | | UCMR5 537.1 - UCMR5 | | | | |
| NEtFOSAA | ND | ug/L | 0.0050 | 1 | NEtFOSAA | ND | ug/L | 0.0050 | 1 |
| NMeFOSAA | ND | ug/L | 0.0060 | 1 | NMeFOSAA | ND | ug/L | 0.0060 | 1 |
| PFTA | ND | ug/L | 0.0080 | 1 | PFTA | ND | ug/L | 0.0080 | 1 |
| PFTrDA | ND | ug/L | 0.0070 | 1 | PFTrDA | ND | ug/L | 0.0070 | 1 |
| UCMR5 EPA 200.7 - UCMR5 | | | | | UCMR5 EPA 200.7 - UCMR5 | | | | |
| Lithium | 12.8 | ug/L | 9.0 | 1 | Lithium | 11.3 | ug/L | 9.0 | 1 |

| Abbreviation | Description |
|--------------|---|
| ND | Not Detected |
| RL | Reporting Limit |
| DF | Dilution Factor |
| UCMR | Unregulated Contaminant Monitoring Rule |

| Point of Entry 002 - Analyzed 02/28/23 | | | | |
|--|--------|------|--------|----|
| Parameter | Result | Unit | RL | DF |
| UCMR5 533 - UCMR5 | | | | |
| 11CI-PF3OUdS | ND | ug/L | 0.0050 | 1 |
| 4:2FTS | ND | ug/L | 0.0030 | 1 |
| 6:2FTS | ND | ug/L | 0.0050 | 1 |
| 8:2FTS | ND | ug/L | 0.0050 | 1 |
| 9CI-PF3ONS | ND | ug/L | 0.0020 | 1 |
| ADONA | ND | ug/L | 0.0030 | 1 |
| HFPO-DA | ND | ug/L | 0.0050 | 1 |
| NFDHA | ND | ug/L | 0.0200 | 1 |
| PFBA | ND | ug/L | 0.0050 | 1 |
| PFBS | ND | ug/L | 0.0030 | 1 |
| PFDA | ND | ug/L | 0.0030 | 1 |
| PFDoA | ND | ug/L | 0.0030 | 1 |
| PFEESA | ND | ug/L | 0.0030 | 1 |
| PFHpA | ND | ug/L | 0.0030 | 1 |
| PFHpS | ND | ug/L | 0.0030 | 1 |
| PFHxA | ND | ug/L | 0.0030 | 1 |
| PFHxS | ND | ug/L | 0.0030 | 1 |
| PFMBA | ND | ug/L | 0.0030 | 1 |
| PFMPA | ND | ug/L | 0.0040 | 1 |
| PFNA | ND | ug/L | 0.0040 | 1 |
| PFOA | ND | ug/L | 0.0040 | 1 |
| PFOS | ND | ug/L | 0.0040 | 1 |
| PFPeA | ND | ug/L | 0.0030 | 1 |
| PFPeS | ND | ug/L | 0.0040 | 1 |
| PFUnA | ND | ug/L | 0.0020 | 1 |
| UCMR5 537.1 - UCMR5 | | | | |
| NEtFOSAA | ND | ug/L | 0.0050 | 1 |
| NMeFOSAA | ND | ug/L | 0.0060 | 1 |
| PFTA | ND | ug/L | 0.0080 | 1 |
| PFTrDA | ND | ug/L | 0.0070 | 1 |
| UCMR5 EPA 200.7 - UCMR5 | | | | |
| Lithium | 9.2 | ug/L | 9.0 | 1 |

| Point of Entry 002 - Analyzed 08/10/23 | | | | |
|--|--------|------|--------|----|
| Parameter | Result | Unit | RL | DF |
| UCMR5 533 - UCMR5 | | | | |
| 11CI-PF3OUdS | ND | ug/L | 0.0050 | 1 |
| 4:2FTS | ND | ug/L | 0.0030 | 1 |
| 6:2FTS | ND | ug/L | 0.0050 | 1 |
| 8:2FTS | ND | ug/L | 0.0050 | 1 |
| 9CI-PF3ONS | ND | ug/L | 0.0020 | 1 |
| ADONA | ND | ug/L | 0.0030 | 1 |
| HFPO-DA | ND | ug/L | 0.0050 | 1 |
| NFDHA | ND | ug/L | 0.0200 | 1 |
| PFBA | ND | ug/L | 0.0050 | 1 |
| PFBS | ND | ug/L | 0.0030 | 1 |
| PFDA | ND | ug/L | 0.0030 | 1 |
| PFDoA | ND | ug/L | 0.0030 | 1 |
| PFEESA | ND | ug/L | 0.0030 | 1 |
| PFHpA | ND | ug/L | 0.0030 | 1 |
| PFHpS | ND | ug/L | 0.0030 | 1 |
| PFHxA | ND | ug/L | 0.0030 | 1 |
| PFHxS | ND | ug/L | 0.0030 | 1 |
| PFMBA | ND | ug/L | 0.0030 | 1 |
| PFMPA | ND | ug/L | 0.0040 | 1 |
| PFNA | ND | ug/L | 0.0040 | 1 |
| PFOA | ND | ug/L | 0.0040 | 1 |
| PFOS | ND | ug/L | 0.0040 | 1 |
| PFPeA | ND | ug/L | 0.0030 | 1 |
| PFPeS | ND | ug/L | 0.0040 | 1 |
| PFUnA | ND | ug/L | 0.0020 | 1 |
| UCMR5 537.1 - UCMR5 | | | | |
| NEtFOSAA | ND | ug/L | 0.0050 | 1 |
| NMeFOSAA | ND | ug/L | 0.0060 | 1 |
| PFTA | ND | ug/L | 0.0080 | 1 |
| PFTrDA | ND | ug/L | 0.0070 | 1 |
| UCMR5 EPA 200.7 - UCMR5 | | | | |
| Lithium | 9.7 | ug/L | 9.0 | 1 |

EPA does not currently have a health advisory for lithium in drinking water. However, the CCL program derived a health reference level (HRL) for screening purposes based on EPA's provisional peer-reviewed toxicity value (PPRTV) assessment for lithium. HRLs are not final determinations about the level of a contaminant in drinking water that is necessary to protect any particular population. The HRL for lithium is based on adverse effects observed in patients administered lithium therapeutically. Lithium has been used in pharmaceuticals for decades to treat certain medical conditions. Despite the abundance of information on patients receiving lithium at therapeutic levels, there has historically been limited information available to evaluate health risks in people at the levels associated with typical drinking water consumption. This is one of the reasons EPA is choosing to monitor for the presence and levels of lithium in drinking water systems around the country. The science on lithium's effects on human health, and at what levels, is still evolving.

For more information, please refer to EPA's provisional peer-reviewed toxicity value (PPRTV) assessment for lithium, the CCL 5 supporting materials, and the UCMR 5 Data Summary. EPA continues to review treatment literature and publish details regarding the removal efficiencies for various technology types via its Drinking Water Treatability Database.

If you have any questions or concerns, feel free to reach out to Lafayette Water Works at (765) 807-1700.