

Results from Quarterly Monitoring of OWASA Biosolids for PFAS Compounds

(all units are ug/kg dry)

| PFAS Acronym | Liquid Biosolids | | | | | | | | | | Dry Biosolids | | | | | | | | | |
|--------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Aug-22 | Nov-22 | Feb-23 | May-23 | Aug-23 | Nov-23 | 24-Feb | May-24 | Aug-24 | Nov-24 | Aug-22 | Nov-22 | Feb-23 | May-23 | Aug-23 | Nov-23 | 24-Feb | May-24 | Aug-24 | Nov-24 |
| 11Cl-PF30UdS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3:3 FTCA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:2 FTS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:3 FTCA | 0 | 181 | 0 | 180 | 140 | 99 | 160 | 110 | 220 | 220 | 36.6 | 0 | 0 | 0 | 31 | 15 | 0 | 0 | 0 | 27 |
| 6:2 FTS | 0 | 0 | 0 | 0 | 0 | 2.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.27 | 0 | 0 | 0 | 0 | 0 |
| 7:3 FTCA | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 30.8 | 0 | 0 | 0 | 21 | 19 | 0 | 0 | 0 | 16 |
| 8:2 FTS | 0 | 0 | 0 | 0 | 0 | 0.99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.54 | 0.68 | 0 | 0 | 0 | 0 | 0 |
| 9Cl-PF3ONS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ADONA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GenX/HFPO-DA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NEtFOSA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NEtFOSAA | 0 | 4.01 | 0 | 4.1 | 6 | 0 | 3.2 | 2.4 | 4.9 | 4.1 | 4.39 | 5.86 | 5.6 | 4.5 | 5.6 | 3.7 | 2.9 | 3.2 | 4.2 | 3.4 |
| NEtFOSE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 | 2.3 | 0 | 0 | 4.8 | 0 | 0 |
| NFDHA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NMeFOSA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NMeFOSAA | 10.9 | 8.31 | 6.22 | 7.7 | 11 | 7.4 | 7.4 | 5.4 | 7.8 | 5.2 | 9.38 | 10.8 | 9.4 | 6.4 | 7.3 | 5.4 | 4.7 | 5.6 | 7.1 | 6.1 |
| NMeFOSE | 0 | 0 | 0 | 0 | 10 | 6.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.2 | 5.5 | 0 | 0 | 8.9 | 5.4 | 0 |
| PFBA | 0 | 0 | 14.74 | 0 | 8 | 2.2 | 9.2 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 2.5 | 4.5 | 0 | 0 | 0 |
| PFBS | 0 | 0 | 0 | 0 | 0 | 2.1 | 0 | 0 | 0 | 3.6 | 0.98 | 5.62 | 0 | 0 | 0 | 1.1 | 0 | 0 | 0 | 3.6 |
| PFDA | 0 | 7.34 | 5.45 | 4.4 | 7.2 | 7.2 | 3.9 | 3.6 | 6.4 | 4.2 | 6.74 | 7.25 | 6.2 | 3.5 | 5.6 | 5.6 | 3.3 | 3.8 | 5.8 | 4.7 |
| PFDoA | 0 | 2.28 | 0 | 0 | 2.5 | 2.4 | 1.5 | 0 | 0 | 0 | 1.93 | 2.71 | 2.3 | 0 | 1.8 | 1.9 | 0 | 2 | 2.4 | 2 |
| PFDoS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFDS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFEESA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFHpA | 0 | 0 | 0 | 0 | 0.79 | 0.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.09 | 0.18 | 0 | 0 | 0 | 0 | 0 |
| PFHpS | 0 | 4.38 | 4.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.65 | 0 | 0 | 0 | 7.4 | 0 | 0 | 0 | 4.8 |
| PFHxA | 0 | 3.23 | 3.59 | 2.2 | 4.3 | 2.4 | 1.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0.56 | 0.69 | 0 | 0 | 0 | 0 | 0 |
| PFHxS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 | 0 | 2 | 0 | 1.4 | 1.3 | 0 | 0 | 0.57 |
| PFMBA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFMPA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFNA | 0 | 0 | 0 | 0 | 1.7 | 0.82 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.74 | 0.51 | 0 | 0 | 0.55 | 0.49 | 0 |
| PFNS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFOA | 0 | 4.17 | 6.41 | 3.6 | 5.4 | 4.9 | 2.9 | 2.4 | 0 | 0 | 1.26 | 0 | 0 | 0 | 1.9 | 1.8 | 1.1 | 0 | 0.87 | 0.91 |
| PFOS | 24.1 | 27.5 | 22.44 | 34 | 33 | 22 | 15 | 13 | 16 | 13 | 23.2 | 25.8 | 29 | 25 | 26 | 18 | 15 | 15 | 13 | 13 |
| PFOSA | 0 | 0 | 0 | 0 | 0 | 1.9 | 1.5 | 0 | 0 | 0 | 1.83 | 0 | 2.3 | 0 | 1.6 | 1.5 | 1.2 | 0 | 1.9 | 1.8 |
| PFPeA | 0 | 0 | 0 | 0 | 3.2 | 2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.32 | 0.24 | 0 | 0 | 0 | 0 |
| PFPeS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PFTeDA | 0 | 0 | 0 | 0 | 1.3 | 0.62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.45 | 0.54 | 0 | 0 | 0.59 | 0 |
| PFTrDA | 0 | 0 | 0 | 0 | 0 | 0.35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.39 | 0.29 | 0 | 0 | 0.74 | 0.86 |
| PFUnA | 0 | 0 | 0 | 0 | 1.3 | 0.95 | 0 | 0 | 0 | 0 | 1.01 | 0 | 0 | 0 | 0.89 | 0.76 | 0 | 0 | 0.92 | 0.94 |

*Cells with a 0 should be interpreted as a non-detect.

*Highlighted rows include at least one sample within the last year with a detect for that compound.