



White Paper on the PFAS and the Land Application of Biosolids October 2025

AquaLaw has prepared a [white paper](#) that seeks to provide some perspective on PFAS-related issues with the land application of municipal biosolids. We hope this will be a helpful resource to NCWQA members, and we welcome any improvements to the document that members may suggest.

Among other information, the white paper highlights **numerous benefits of land applying municipal biosolids**:

- Biosolids replenish organic matter in soil that has been depleted.
- Biosolids provide nitrogen, phosphorus, and potassium – the key nutrients that plants need to thrive.
- The organic, slow-release nitrogen and phosphorus in biosolids are absorbed more efficiently by crops than chemical fertilizers.
- Biosolids provide beneficial trace elements such as calcium, magnesium and iron, typically not found in chemical fertilizers.
- Organic nutrients are less water-soluble and, therefore, less likely than chemical fertilizers to leach.
- Biosolids hold nutrients near the roots, where plants need them.
- Biosolids improve soil structure, including increased porosity.
- Land application sequesters carbon and reduces dependence on chemical fertilizers.
- Frees up much-needed space in landfills.
- Provides an opportunity for farmers and cities to work together in a cooperative venture that benefits both groups.
- Supports the financial viability of family farming.
- Subsidizes food prices.