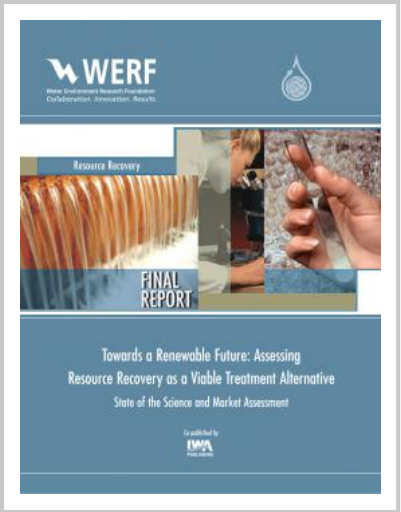
Towards a Renewable Future: Assessing Resource Recovery as a Viable Treatment Alternative: State of the Science and Market Assessment



Implementation of extractive resource recovery technologies at water resource recovery facilities (WRRFs) has been limited to date (2015). This research sought to facilitate a more widespread adoption of resource recovery at WRRFs. Three main objectives were defined for this purpose:

1. Characterize factors influencing the adoption of extractive resource recovery systems.

2. Provide guidance on the implementation of extractive resource recovery technologies at WRRFs with a special emphasis on phosphorus.

3. Experimentally evaluate innovative extractive nutrient recovery technologies with an emphasis on phosphorus recovery.

This report represents the state of the science review of extractive nutrient recovery technologies with a special emphasis on bridging the knowledge gap currently faced by utilities when considering nutrient recovery for nutrient management. A complementary interactive electronic technology summary matrix is also available. Based on the review of technology, it is proposed that extractive nutrient recovery will likely be most viable if employed within a three step framework including accumulation, release, and extraction steps.

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