



# QUICK WASH<sup>TM</sup>

Phosphorus Extraction and Recovery

## Solids stream treatment

Quick Wash<sup>TM</sup> is one of the most flexible phosphorus extraction and recovery solutions available in the municipal and industrial waste water treatment markets.

Quick Wash is effective at removing and recovering 95% or more of the phosphorus present in facilities that deploy it for solids streams, producing a biosolids product that is low in or free of phosphorus.



## Recovering phosphorus from solids streams

Quick Wash™ for solids streams provides facility operators with the flexibility of removing and recovering phosphorus directly from pre and post-digestion flows, or from the feeds to dewatering operations, as opposed to simply reducing phosphorus loads in liquid recycle streams. The system can serve as a strategic means of future-proofing land application of manure solids in an age of ever more stringent phosphorus and nutrient regulations, while reducing or eliminating the costs associated with disposal.

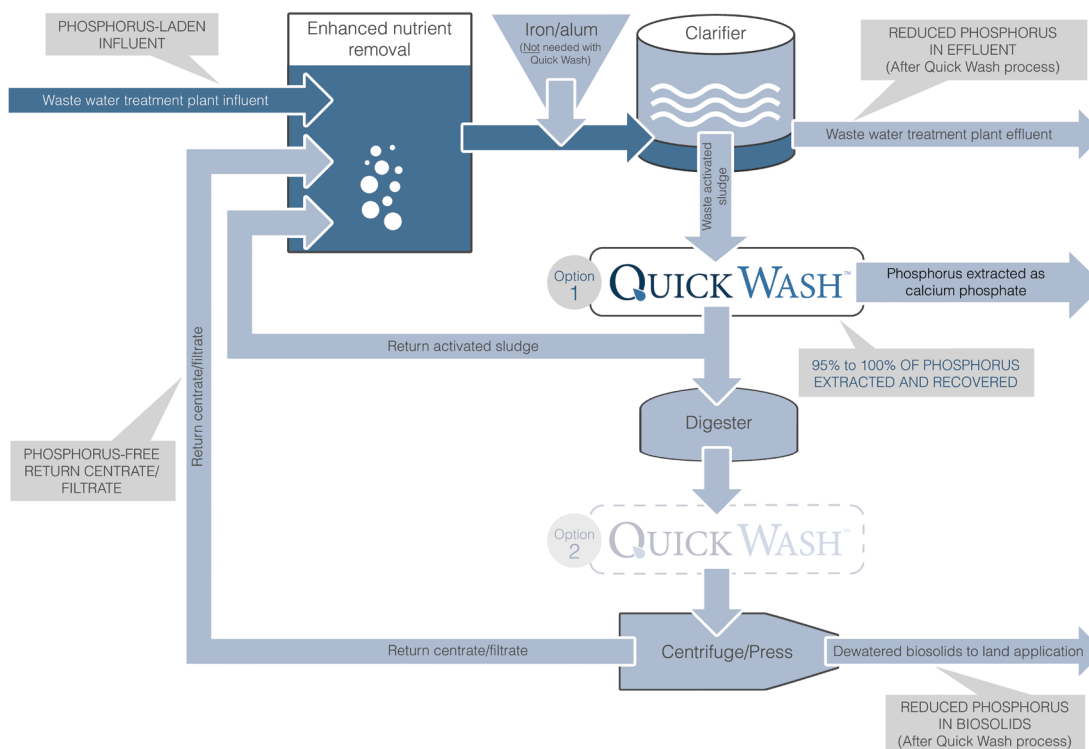
Quick Wash recovers phosphorus in the form of calcium phosphate (similar to triple or single super phosphate fertilizer), and facilities can elect to sell or monetize this valuable recovered resource.

## Benefits of Quick Wash in solids streams

- Extracts and recovers more than 95% of the phosphorus found in recycling side streams
- Reduces phosphorus content of dewatered manure solids, allowing them to be safely land-applied
- Facilitates the ability of treatment plants to meet EPA nutrient TMDL permitting requirements
- Allows for reduction/elimination of metal salts typically used to remove phosphorus from influent streams
- Reduces/eliminates costly recycle flows of phosphorus
- Eliminates struvite scaling in pipes (*pic*)
- Reduces manure solids transportation and disposal costs
- Increases operational efficiency of BPR processes



## Quick Wash treatment of solids stream



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