

Potable Water Treatment Sludges for Agricultural Benefit



INNOVATORS IN WASTE SCIENCE
AND RECYCLING TECHNOLOGIES



Enhance your soil with a locally derived residual sludge, a by-product from clean potable water treatment.

At zero cost to the user and fully approved by the Environment Agency and Natural Resources Wales, recycling the residual sludges from the treatment of clean water to agricultural land is a proven and sustainable method of improving soil.

Available as either cakes or liquids, spread using conventional agricultural equipment. Water treatment sludge cakes are an excellent source of soil organic matter, a key component vital for maintaining soil

health that is continually lost in worked soils. The added presence of organic acids aids nutrient solubility and uptake, as well as enhancing microbial activity for enhanced nutrient cycling in soils.

An optimum organic matter status in your soil is important;

- **Improves soil structure, condition and workability**
- **Aids water holding capacity**
- **Provision of slow-release plant nutrients**

See over for further details →

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Our water treatment sludges also contain a proportion of essential plant nutrients including Sulphur and Nitrogen and often Phosphate. A high Sulphur content, combined with the organic matter, is an excellent way of combating Sulphur deficiency in soils (particularly prevalent in Western parts of the UK). This results in improved development and growth of crops, better grass growth for grazing and greater silage yields.



Beneficial properties of these water treatment residual sludges include:

Residual Sludge Cake	Residual Liquid Sludge
Zero cost	Zero cost
Up to 50-60% organic matter (often equating to over 70 kg/t)	Up to 30-50% organic matter (dry weight basis)
Up to 5 kg/t Sulphur Additional plant nutrients including Nitrogen and Phosphate Trace elements such as Zinc and Copper	Additional plant nutrients including Sulphur
Year-round application at rates of 60 t/ha or more using conventional manure spreaders	Year-round application at rates up to 250 t/ha using conventional liquid spreaders

(Typical values and application rates for both types of sludge vary according to water treatment works source)



4R RECYCLING AND 4R ENVIRONMENTAL CONSULTANTS ARE PART OF THE 4R GROUP

Using recent soil and sludge analysis, application rates are tailored by FACTS qualified staff to suit cropping and soil type on a field-specific basis for your farm at no cost to you.

Call us on: 0800 0121 769
or email: info@4R-Group.co.uk



Our product leaflets are on our website.
Find out more by scanning this QR code on your mobile device.