RUSSELL VIBRATORY SEPARATORS SAVE [WATER AT BRISTOL TREATMENT WORKS

Substantial savings of clean water have been achieved at the Barrow treatment plant of Bristol Water plc through the installation of four double-deck Europa vibratory separators, supplied by Russell Finex Limited, of Feltham, Middlesex.

The separators are used to recover water from the debris discharged from a series of rotary micro strainers, which are fed with water at a constant flow rate direct from a reservoir. Previously, the water contained in the debris was simply discharged into the local sewerage system.

On discharge from the micro strainers, the water-bearing debris (containing gravel, minerals, leaves, small fish and other matter) is directed on to the new 1200mm dia double-deck vibratory separators.

At the first deck, the large solids are vibrated out and deposited on to an inclined chute which feeds them by gravity into a basket, the contents of which are emptied at regular intervals.

At the second deck, the smaller particles are similarly removed from the water and discharged into a sludge collection tank, which is emptied by pump sets.

Clean water thus recovered by the separators is pumped away for further treatment, the quantity of water reclaimed in this way amounting to approximately 2 per cent of the total throughput of the treatment works.

- **Separates up to 5 size fractions in one pass**
- **Enables more water to be recycled**

Installation of the four Europa vibratory separators at the Barrow works follows the successful use of a similar unit at Bristol Water's Stowey treatment plant.

Available in three sizes, from 700mm to 1200mm diameter, the Russell Europa series of separators can each be supplied with up to four sieve decks to provide up to five simultaneous sieved fractions.

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