

BENEFITS

- ▶ Reduces potable water consumption
- ▶ Reduces vehicle movements
- ▶ Saves money



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MOTIVATION FOR INNOVATION

Tunnelling support processes at Plumstead Portal use approximately 300,000 litres of potable drinking water everyday. HMJV are significantly reducing the use of potable water for tunnelling processes by utilising surplus groundwater from the dewatering scheme. HMJV have obtained consent from the Environment Agency to recycle groundwater for uses such as bentonite mixing, slurry dilution and grout mixing. This will save over 2 million litres of potable water a week.



Above: Plumstead Slurry Treatment Plant, where recycled groundwater is used for slurry dilution.

ADDITIONAL INFORMATION

The use of groundwater in these processes will result in a reduction of environmental and energy impacts associated with its provision. By saving 300,000 litres per day over 1.5 tCO2e per month associated with the supply of potable water will be saved.



INNOVATE 18 MOVING IDEAS FORWARD

