The Geological Society

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South East Regional Group

Meeting

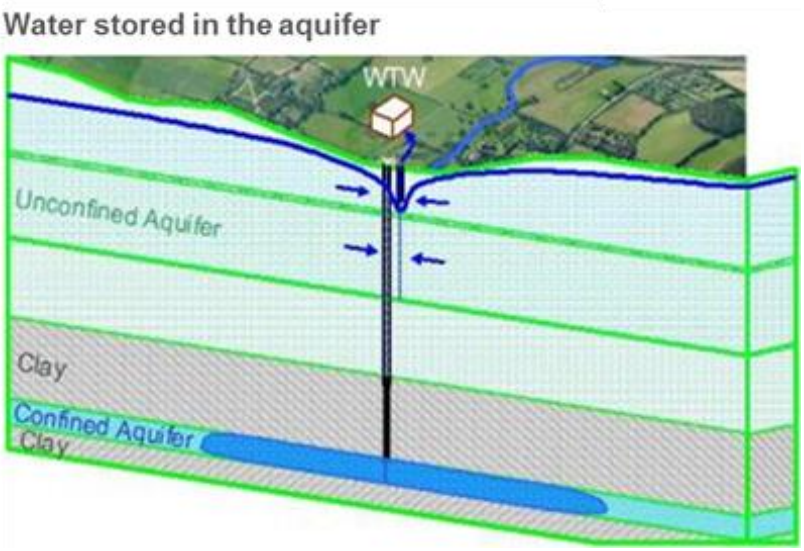
Date: 10 April 2018

Location: AECOM, Croydon, 18.00 for 18.30 start

Aquifer Storage & Recovery: Engineering Water Resources for Climate Resilient Public Water Supply

Dr Mike Jones, Water Resources & Process Modelling Lead, Thames Water

Thames Water has the largest operational managed aquifer recharge (MAR) scheme in the UK, contributing 140 Ml/d to London's water supply from the confined Chalk-Basal Sands aquifer. Other MAR opportunities have been explored in this aquifer, but Thames Water is continuing to develop and test an aquifer storage and recovery (ASR) scheme in the confined Lower Greensand aquifer of north Kent. This is different in concept and in scale, targeting only a 5 Ml/d contribution to London's water supply.



The scope of this ASR scheme is influenced by the constraints and opportunities exerted by existing infrastructure, the quality and quantity of the recharge water available, as well as the hydrogeology. Within this context, the aim is to engineer a climate resilient public water supply scheme, which enables aquifer recharge under high pressure and management of groundwater quality such that the stored water is available for use during future droughts.

LOCATION: AECOM, Sunley House, 4 Bedford Park, Surrey, Croydon CR0 2AP

Please let us know if you plan to attend: southeastrg@googlemail.com