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**Sent:** 10 November 2010 10:02  
**To:** Burrell, Mike  
**Cc:** Cook Mike C  
**Subject:** GNDP EIP Nov 2010

Good morning

In preparation for the GNDP EIP we have assessed the new build capacity that we would be able to support under restrictions to abstractions from Costessey to historic levels (2005).

Our Water Resources Management Plan (WRMP) for the Norwich and the Broads Water Resource Zone (WRZ) provides the basis of our assessment and includes our planned AMP5 (2010-2015) schemes.

As part of our WRMP we have worked with the GNDP on a water cycle study to identify where new water and wastewater infrastructure would be needed to support the planned development of the city and this formed part of our growth forecast for the Norwich and the Broads WRZ. The forecast growth included in the WRMP for this WRZ can be found in Rows 1 as follows:

Row	Description	Units	AMP5
			2014/15
1	Forecast growth (properties) included in our Water Resources Management Plan (WRMP) / Final Business Plan (FBP) for Norwich & The Broads	000'0	7.69
2	WRMP / FBP Norwich & The Broads Supply Demand Balance	MI/d	8.22
3	Norwich & The Broads revised Supply Demand Balance (capped abstraction)	MI/d	2.23
4	Additional build capacity at 125 l/h/d (based on revised Supply demand balance)	000'0	8.74
5	Additional build capacity at 115 l/h/d (based on revised supply demand balance)	000'0	9.50
6	Total build capacity at 125 l/h/d (incl forecast growth (Row 2))	000'0	16.43
7	Total build capacity at 115 l/h/d (incl forecast growth (Row 2))	000'0	17.19

At this level of growth we are able to maintain levels of service commitments to our customers and our supply demand balance remains in surplus (Row 2).

Assessment of the impact of reducing abstraction at Costessey to historic levels (2005) led to a 6 MI/d reduction to our supply demand balance (Row 3). Whilst this identified a reduced surplus in the WRZ, the revised supply demand balance was inclusive of the growth rate originally planned and also a target headroom allowance.

Using the new build Per Capita Consumption (PCC) of 125 l/h/d and the Code for Sustainable Homes (CfSH) PCC of 115 l/h/d (105 l/h/d internal use, 10 l/h/d external use) we have calculated the additional number of properties (above the forecast growth rate) this WRZ would be able to accommodate with the reduced supply demand balance (Rows 4 and 5). This still includes an allowance for target headroom.

The total build capacity for Norwich and the Broads based on the revised Supply demand balance is presented in Rows 6 and 7.

We are confident that we can meet the forecast growth rate with the reduced abstraction from Costessey during AMP5.

Our headroom and demand forecast will be reviewed and reset in 2014. Reassessment of our supply demand balance as part of the Periodic Review/ WRMP process would seek to maintain future security of supplies and levels of service in this WRZ.

Kindest regards

Jayne

Jayne Owen  
Anglian Water Services