

R17c	Question to:	Question:	Thames Water's Response
R17d.4	Thames Water	<p>Future Baseline - Wastewater Treatment Works and Network Capacity In ExQ2 [PD-021] WE2.2 and WE2.3 we asked about the capacity of both your wastewater treatment works (WTW) and the public sewer network (PSN) in both the Future Baseline and Proposed Development scenarios. In your [REP7-119] response to both of these questions your comments seem to focus only on the Proposed Development growth in passenger numbers.</p> <p>In order to assist the Examination, we would be grateful if you could explain the position with respect to the capacity of both the WTW and the PSN in the Future Baseline scenario that the Applicant has set out in the Application. This Future Baseline scenario is a growth in passenger numbers from the 46.6 million passenger per annum (mppa) in 2019 to 67.2 mppa in 2047, if the DCO was not granted. The Applicant considers that this increase represents the growth that would occur without the Proposed Development so we would like to understand the implications for your infrastructure in this scenario. The ExA would like to understand your view as to the ability of the WTW and PSN to accommodate this 20.6 mppa growth over 23 years.</p>	<p>We would like to clarify that the ability of our Sewage Treatment Works (STW) and our sewer network to accommodate the projected growth in passenger numbers at Gatwick Airport (with or without the DCO being granted) would depend on the results of a hydraulic model and a load survey. The hydraulic model will be used to determine the impact of the projected flows on our network and the load survey will determine if additional treatment units or other upgrades would be required at our STWs.</p> <p>As this has not yet been completed, we are not clear on the specific impacts of a 20.6 mppa growth on our STWs and network. We have an internal database which gives a strategic overview of long-term assets and resources and projections for the airport are included within it. However, it is noted in that database, that airports' population equivalent values can change seasonally by up to 30% and the British Water Flows and Loads Code of Practice does not contain biochemical oxygen demand values or flow details for airports. As a result, the modelling and load survey noted above is essential for us to understand the specific future impacts on our STWs and network.</p> <p>Additionally, we will still need to understand how flows from the airport will be discharged into our network so we can agree a suitable split between our existing receiving STWs at Crawley and Horley. This distribution will need to be agreed, considering the efficient performance of our infrastructure in both locations.</p>