**Comments from Bio Bubble:**

Since the shift in approach by Natural England from reduction efficiency Ntot to typical average precautionary outputs in mg/l, we have clients with submissions awaiting sign off from NE whereby we have submitted a precautionary 5 mg/l Ntot.

We are awaiting Natural England feedback against submissions using 5mg/l. Previously, they accepted from our real world analysis results submitted a reduction efficiency of 88.5% for Ntot. Our results show we often achieve < 2mg/l, although they would be unlikely to accept this as with the buffer on the potable supply water allowance being 2mg/l we would be neutral. We decided to go with 5mg/l, although NE could potentially insist that we shift to 7 or even 10 mg/l under their precautionary approach.

Attached is a years' worth of analysis for 2020 from a Bio Bubble treating domestic waste as classified by the Environment Agency. We only had 3 months' worth for 2021 on account of Covid. NE have seen the analysis for 2018 and 2019.

To be able to achieve these results with enhanced process de nitrification you would need to use our twin tank system.

The Bio Bubble treats the solids as well as liquids so no desludging of untreated primary sludge required only a humus sludge that is an excellent soil conditioner.

Hopefully this will help you with your application