

To:	Fulton Hogan Ltd / Watercare		
Date:	8 Aug 2024	Project ID	231106
Document ID:	220801-LET01	Revision	A
Subject:	Mechanical Settlement Analysis for 3 shafts for Queen St Wastewater Project		

Andy O'Sullivan Geotechnical Engineering (AOS) has been commissioned by Fulton Hogan Ltd (FH) / Watercare to provide the detailed design of a temporary shaft excavation for 3 main shafts (Mayoral Shaft, Wellesley Shaft, Victoria Shaft) as part of the Queen Street Wastewater Diversion Part 3 project.

We refer Question 3 under s92 (Groundwater) that WSP received on 30 July 2024:

"We note that Andy O'Sullivan reports (dated 25 and 29 March 2024) in Appendix C – "Mechanical Settlement Analysis" in the WSP report titled "Assessment of Dewatering Effects" are unchanged from the previous version of the WSP report.

Please confirmed why no changes to these reports have been undertaken given the proposed changes to the three shafts."

We confirm the mentioned AOS reports (dated 25 and 29 March 2024) are the latest assessment undertaken to assess the mechanical settlement effects due to the proposed excavation of the 3 shafts.

There is a slight decrease to the predicted mechanical settlement behind the temporary retention due to the adoption of a stiffer temporary retention for the proposed shafts. The mechanical settlement of the new temporary works design would be slightly smaller than our previous assessment so using previous assessment for consent submission is considered appropriate.

We trust this provides the information that you are seeking.

Yours faithfully,

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