

Amber Owen

From: Sonia Baker
Sent: Monday, 11 April 2016 10:14 a.m.
To: Amber Owen
Subject: FW: Questions from the Commisioners for Thomas Josph

From: Joseph, Thomas [<mailto:Thomas.Joseph@mottmac.com>]
Sent: Thursday, 7 April 2016 12:26 p.m.
To: Sonia Baker
Subject: Questions from the Commisioners for Thomas Josph

As requested by the commissioners.

Information required to complete storage attenuation

In order to fully understand and ensure that storage is appropriately accounted for in the model through the proposed development it is recommended to take common flow sections at regular intervals (approximately 200m and notably upstream of constrictions) and compare existing and proposed total flow hydrographs.

Sea Level Rise

As discussed during my evidence, currently SH 58 is the ultimate control point of this catchment. For all scenarios investigated except for the 2 year event SH 58 is expected to overtop. This suggests that sea level rise will not have a major impact on the upstream flood hazard area as long as the sea level remains below SH 58. The relevant elevations are shown below which highlight that SH 58 will not be inundated with a sea level rise of 1m. It can therefore be concluded that a 1m sea level rise will not have a significant impact on the predicted flood hazard area for all events above the 2 year flood event which overtop SH 58. However that said if SH 58 is raised then sea level rise will result in more significant impact.

- Current SH58 RL – 2.46
- Current High Tide RL - 1m
- High Tide Level with 1m sea rise RL – 2m < 2.46

Tom