



Date: 7/3/2018
Our reference: DOC18/137697
Contact: Stephen Atkins

Michelle Niles
Senior Planner
Modification Assessments
Department of Planning & Environment
GPO Box 39
Sydney NSW 2001

Dear Michelle

Stormwater Management Catherine Hill Bay - MP10_0204 MOD6

I refer to your email of November 21st 2017 regarding a report prepared by ADW Johnson in reference to Responses to Submissions to the above Modification application.

I note that concerns have been raised by Lake Macquarie City Council regarding the provision of adequate stormwater detention and water quality controls which have the potential to impact on land downstream, in the Munmorah State Conservation Area.

In particular, Figure 1 of the Response to Submissions Report on page 4 makes reference to the location of a stormwater gully over an existing gully line. The report states; *This Gully currently conveys runoff from the subject site as concentrated flows. The outlet locations have been ground trothed to coincide with existing gully lines. Energy dissipation and level spreader structures will be provided to reduce velocities to mitigate potential erosion downstream of the site.*

Our concern is that the gully referred to leads to a small lagoon that contains a high level of unconsolidated sediment build up in the lower section. The result of this over time has effectively reduced the outflow capacity of the lagoon, and any additional sediment entering the lagoon will further decrease the movement of water particularly during periods of heavy rain, which may impact on adjoining properties.

Given that a portion of stormwater in Stage 7 cannot be discharged through the stormwater quality controls in Stage 6 and therefore will be discharged via a Gross Pollutant trap, support is provided for the recommendation from Lake Macquarie City Council for additional stormwater detention and water quality controls.

Should you require further information please contact Ranger Glenn Gifford on 4972 9008 or glenn.gifford@environment.nsw.gov.au

Yours Sincerely



STEVE ATKINS
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