## BEFORE THE HEARING PANEL

**IN THE MATTER** of the Resource Management Act 1991

**AND** 

IN THE MATTER of an application for a proposed Private Plan Change (Private Plan Change 28) by CCKV Maitai Dev Co LP and Bayview Nelson Limited to the Nelson City Council associated with the rezoning of approximately 287-hectares of land located within Kaka Valley, along Botanical Hill and Malvern Hill on land at 7 Ralphine Way, Maitai Valley and Bayview Road as detailed within the application.

## **S42A SUMMARY REPORT TO THE COMMISSIONERS**

MR GREG HILL (CHAIR), MS SHEENA TEPANIA, MS GILLIAN WRATT, AND MR NIGEL
MARK-BROWN

SECTION 42A SUMMARY REPORT OF KATE PURTON – STORMWATER AND FLOOD RISK, BECA LIMITED, ON BEHALF OF THE NELSON CITY COUNCIL

Introduction

1. This summary provides an update for the commissioners based on the evidence heard

within this PPC28 hearing to date. It provides summary of the key outstanding matters of

concern and should be read in association with:

Section 42A Report, Appendix J – Stormwater and Flood Risk memo from Kate Purton

to Gina Sweetman, dated 28 May 2022.

Section 42A Addendum, Appendix I - Addendum Stormwater and Flood Risk memo

from Kate Purton to Gina Sweetman, dated 27 June 2022.

2. I note that my original Stormwater and Flood risk memo included in the Section 42A report

was prepared before the applicant's evidence including the Stormwater Management Plan

was provided.

3. My conclusions from my original memo and my addendum memo remain valid.

**Areas of disagreement** 

4. In my opinion the key areas of difference between the applicant's stormwater and flood risk

experts and me are:

The sufficiency of the information provided.

The suitability of the proposed PPC28 plan provisions.

**Information provided** 

5. In my opinion, at plan change stage sufficient information is required to understand the

stormwater and flood risk effects of future development of the site, the proposed

stormwater and flood risk management system, and whether this is sufficient to mitigate

these effects.

6. The Stormwater Management Plan (SMP) shows good progress in advancing the

understanding of the stormwater and flood risk issues and their proposed management,

however there are still gaps and inconsistencies in the information provided in the SMP and

the applicant's evidence. For instance:

Section 42A Summary Report – Stormwater and Flood Risk Private Plan Change 28

2

a. The stormwater treatment and attenuation devices tabulated in the SMP Tables 5.3,5.5 and 5.6 do not directly correlate with the stormwater treatment and attenuation device areas shown in Figures 2 and 4 of Appendix A of the SMP. There are also

inconsistencies within Tables 5.5 and 5.6 that need to be resolved.

b. The SMP text refers to off-line or on-line attenuation (detention) basins, Schedule X.9 item 11 refers to locating detention within the blue-green corridor, and the SMP Appendix A shows the two largest stormwater attenuation devices over the Kākā Stream (i.e. as on-line devices). During the hearing it has been clarified by Mr Farrant and Mr Markham in their responses to questions from the hearing panel that detention could be either off-line or on-line. This needs to be resolved before any development is undertaken. While off-line devices could be designed for a local sub-catchment, on-line devices would need to allow for future development in the upstream catchment.

(e.g. habitat, natural character and geotechnical).

c. There is limited information provided on the hydraulic modelling of the proposed stormwater attenuation devices. Some information on the hydrological modelling is provided. Clear information should be provided on the proposed attenuation option modelled, how this was modelled (including model assumptions and inputs), and the model results to demonstrate performance and therefore feasibility of the proposed

The related multi-disciplinary effects of such on-line devices also need to be addressed

attenuation system.

d. The plans included in the SMP Appendix A and graphic attachments included Mr Milne's landscape evidence and rebuttal are inconsistent with regard to the layout of the Kākā stream realignment, riparian zone and stormwater treatment device adjacent to this. This needs to be resolved before any subdivision development in this area or in the

area serviced by this stormwater treatment device is undertaken.

e. There is limited information provided on the hydraulic modelling of the proposed Kākā Stream realignment. Some information on the hydrological modelling is provided. Clear information should be provided on how the realigned Kākā Stream has been modelled (including model assumptions and inputs), and the model results provided to

demonstrate that the proposed footprint is feasible.

f. There is limited information on the proposed stormwater and flood risk management

approach for the Walters Bluff/Brooklands catchment (north of the ridge) and no

information on the proposed stormwater and flood risk for the Maitai River sub-

catchment to the west of the Kākā Stream.

7. The above list provides examples but is not exhaustive.

8. In my opinion, the stormwater design has not been developed sufficiently:

a. To demonstrate the feasibility of the proposed stormwater and flood risk management

approach to mitigate the effects of future development of the site (including

cumulative effects).

b. To provide certainty for future subdivision/development of any portion of the PPC28

area with regard to overall stormwater and flood risk management.

9. Refer to my addendum memo and original memo for further detail.

**Proposed plan provisions** 

10. During the hearing there have been references to how the design will be advanced and the

site developed by the applicant and their team. However, if the site is rezoned through

PPC28, the future development of the site may be by the applicant and their current team

or may be by others, and the development may be staged or piecemeal. The plan provisions

need to be clear and robust and allow for all eventualities.

11. While much of the applicant's evidence refers to the Stormwater Management Plan, it is not

currently clear how the current SMP (as included in the applicant's evidence) is incorporated

into the proposed PPC28 plan provisions.

12. Schedule X.13 refers to a Stormwater Management Plan being submitted with any

application for subdivision or development, however it is currently not clear what needs to

be included in this and how this relates to the current SMP.

13. This needs to be resolved in a way that requires a site-wide SMP that provides clear and

unambiguous over-arching requirements and also requires individual

development/subdivisions to provide more detailed information for their area.

Section 42A Summary Report – Stormwater and Flood Risk Private Plan Change 28 Prepared by Kate Purton, Beca Ltd, on behalf of Nelson City Council

4

14. Schedule X.9 provides ecological outcomes or principles for stormwater management. While

I am generally in agreement with these, they need to be translated into clear standards in

the body of Schedule X which future development is required to achieve to mitigate

stormwater and flood risk effects.

15. Without clear requirements in the PPC28 plan provisions, the Nelson Tasman Land

Development Manual (NTLDM) would be the default standard under the current NRMP.

However, many aspects of the applicant's proposed stormwater and flood risk management

approach for PPC28 go beyond the requirements of the NTLDM (e.g. proposed stormwater

treatment, retention and extended detention). The applicant's effects assessment is based

on their proposed approach, but without appropriate rules future development could revert

to the NTLDM requirements.

16. In addition to this there are site-specific issues which, in my opinion, need clear PPC28

provisions beyond the current NRMP provisions and NTLDM requirements (e.g. 1% AEP

flood levels and minimum floor levels, effects of filling with the floodplain, cumulative

downstream effects of detention storage in multiple sub-catchments, and the potential Kākā

stream realignment).

17. In my opinion further work is required on the proposed plan provisions to clearly set out the

stormwater and flood risk management requirements for the site, and how it shall be

demonstrated that these have been met.

18. I have provided further detail and suggestions regarding the plan provisions in my original

memo (paragraphs 70 to 76), in my addendum memo (paragraphs 31 and 33), and to Ms

Sweetman to assist with her discussions with Mr Lile.

**DATED** this 21<sup>st</sup> day of July 2022

More

**Kate Purton**