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 Kākā 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 DR PAUL FISHER – WATER QUALITY SPECIALIST, NELSON CITY COUNCIL

21st July 2022

Introduction

1. This summary provides a quick reference to the key outstanding matters of concern and water

quality matters raised by the applicant regarding catchment hydrology and sediment discharges

to the receiving environment. This summary should be read in association with:

Appendix I - S42A Report of Paul Fisher dated 24th May 2022

Appendix B - S42A Addendum Report of Paul Fisher dated 24th June 2022

2. My conclusions from these reports remain valid as follows.

3. The applicant's expert advice for improving the water quality and ecological outcomes has been

based on the premise that Kākā Stream will be 'realigned' and that part of the flood plain will

also be infilled, requiring extensive earthworks.

4. The current approach has therefore not provided an assessment of alternative options at the

Plan stage, and I find no compelling evidence to demonstrate that the preferred option provides

the optimal environmental outcome if this is desired.

5. Given that realigning the stream and partial infill of the flood plain is critical for the existing

proposed development, I would expect a more comprehensive assessment than what is

provided, including an assessment of the subdivision design with the stream in situ, including

some consideration of the catchment hydrology and connectivity of freshwater habitat and

species.

6. The Council led Groom creek constructed wetland project has been mentioned as a project

demonstrating a good example of a stream realignment. The focus of this project was to

primarily improve water quality, by reinstating an ephemeral wetland along the bank of the

Maitai. I note that there were significant challenges at the site with liquefaction, which resulted

in issues maintaining water levels and technical constraints moving heavy machinery over land.

Overall, the project has been a great success for enhancing biodiversity and amenity in this

popular recreation area by the Maitai camp. I do not consider it directly comparable to what is

proposed through PPC28.

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7. It is still my opinion that the existing provisions in the Nelson Resource Management Plan,

national policy and standards will not be sufficient to address all the water quality issues of

concern at the time of subdivision or for the proposed scale of development.

Matters raised during the hearing

8. The applicants' experts have provided assurances that the permeability and flow paths can be

constructed and designed in the realigned stream and the remaining flood plain will meet the

functional ecological requirements, which will be considered further at the consent stage.

9. It is unclear from the provisions to what extent the network of smaller ephemeral streams

within the catchment will be protected. In my opinion the experts' assurances need to be

supported by an assessment of what the "naturalised" flow regime is, including the extent of

groundwater to surfacewater recharge, to reflect the complexity of the site and to consider the

hydrology in the broader catchment.

10. There is a risk of losing important pool refuge habitat and connectivity of freshwater habitat at

a catchment scale if the stream network is confined to the current assessment, which could

result in a loss of freshwater habitat and biodiversity, particularly in the upper catchment where

stormwater treatment devices such as wetlands will be more difficult to construct and maintain.

11. There have been various mentions of the existing Bayview earthworks from the applicant and

submitters with respect to the success of erosion and sediment control, and discharges that

have resulted in breaches of their discharge consent.

12. Based on my experience at council of the current earthwork and sediment control practices and

the localised rainfall events that we have experienced over the last decade, I do consider that

there will be sediment discharges for this proposed catchment scale development, even with

best practice measures and that these cannot be avoided; particularly with steep contours, the

proposed works to the flood plain and the Kākā stream and the bulk earthworks.

13. In my opinion the only way to minimise these discharges and effects is to take a precautionary

approach by staging and limiting open areas to allow for quick stabilisation if necessary.

14. The applicant has compared sediment discharges and yields from the proposed development

with respect to the Maitai catchment and concluded that they will be relatively minor. In my

opinion this assessment has not fully considered the sensitivity of the downstream environment

Section 42A Summary Report – Water Quality Private Plan Change 28 Prepared by Dr Paul Fisher, Nelson City Council or where point source discharges will potentially impact within the Haven, which is subject to

tides creating sediment wedges and different flushing regimes.

15. I am still unclear whether water sensitive design and stormwater treatment will be included onsite for the proposed Bayview development discharging to Nelson Haven estuary, which would be expected as best practice to minimise stormwater contaminants during and post development.

Dr Paul Richard Fisher

21 July 2022