From: <u>Liam Hewson</u>
To: <u>Mailroom Mailbox</u>

Subject: Fw: PC7 submission - Annfield Dairies **Date:** Friday, 13 September 2019 1:56:59 PM

Attachments: PC7 submission for shareholders (Liam Hewson).docx

To whom it may concern

Attached is my submission for the proposed Plan Change 7 in Canterbury.

Regards Liam Hewson Annfield Dairies Limited

SUBMISSION ON PROPOSED PLAN CHANGE 7 TO THE CANTERBURY LAND AND WATER REGIONAL PLAN

Clause 5 First Schedule, Resource Management Act 1991

TO: Proposed Plan Change 7 to the Canterbury Land and Water Regional Plan

Environment Canterbury PO Box 345 Christchurch 8140

By email: mailroom@ecan.govt.nz

Name of submitter:

1 Name: Annfield Dairies

Address: 611 Winchester Geraldine Hwy. RD21 Geraldine 7991

Contact: Liam Hewson

Email: Annfield@hotmail.co.nz

Trade competition statement:

2 Annfield Dairies could not gain an advantage in trade competition through this submission.

Proposal this submission relates to is:

This submission is on proposed Plan Change 7 (PC7) to the Canterbury Land and Water Regional Plan (PC7).

Wish to be Heard:

- 4 We wish to be heard in support of this submission.
- We would be prepared to consider presenting a joint case with others making similar submissions at the hearing.

Liam Hewson

13 September 2019

Submission

<u>Background</u>

We Operate a 115ha Dairy Farm in the Geraldine Flat Area. We are a shareholder of Opuha Water Limited. Utilising Water from the Kakahu Water Limited branch of the water Scheme at a unrestricted Rate of 26.5 litres a second applied in conjunction with 10 litre a second unrestricted, 5 litre a second restricted bore source right From the otop Zone Giving a maximum applied rate of 36.5 litres a second being applied via pivot spray irrigation over 108ha effective. We are very reliant on our Opuha water none more so than in restricted periods. As we have a low volume of water being stretched over a big area we are forced to operate very efficiently in good conditions and very stressfully in restricted conditions. The proposed changes in plan change 7 could have a significant impact on our ability to farm in these conditions and significantly reduce the financial viability of both our water shares and farm.

Section & Page Number	Sub-section/ Point	Oppose/ support (in part or full)	Reasons	I/we seek the following decisions from Environment Canterbury (ECan)
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14.4 Policies				
Nutrient Management (pages 135 – 137)				
	14.4.20B	Support	I/we support the approach taken by Policy 14.4.20B in terms of providing a methodology where the Farm Portal is unable to generate a Baseline GMP Loss Rate or Good Management Practice Loss Rate or the number generated is demonstrated to be erroneous.	Retain Policy 14.4.20B as notified.
	14.4.20C	Oppose in part	While I/we accept that ECan should have the power to review land use consents for farming activities in the circumstances contemplated by Policy 14.4.20C, I/we consider that the scope of the consent review should be limited to a review of nutrient discharge allowance conditions.	Amend Policy 14.4.20C so that only the conditions relating to the nutrient discharge allowance can be reviewed.

The specific provisions of PC7 that my submission relates to are:		My submission is that:		I/we seek the following decisions from Environment Canterbury (ECan)
Section & Page Number	Sub-section/ Point	Oppose/ support (in part or full)	Reasons	
14.4 Policies				
Opihi Freshwater Management Unit: Surface Water Flows	14.4.35	Oppose in part	As an OWL shareholder, I/we support the intent of Policy 14.4.35, to maintain connectivity and flow variability in the augmented Opuha and Opihi rivers. This aligns with the way OWL has been operating the Opuha dam, and the ethos of the OEFRAG approach to managing the Opihi River over the years, including in particular, during the severe water short years of 2014, 2015 and 2016.	Adopt the decisions sought in the AMWG's submission on PC7 relating to artificial freshes.
(pages 140- 141)			I/we support clause (b) which specifies that the flows at Saleyards bridge should be measured on a 24-hour average with instantaneous variance of not greater than 500l/s below the minimum flow. From an operational point of view this is a practical and efficient approach.	
			In terms of clause (e) relating to fresh management, I/we understand that the Adaptive Management Working Group (AMWG) have been working to develop an artificial fresh regime to most efficiently manage periphyton and achieve improved environmental outcomes. I/we support the AMWG's proposals and submission in this regard.	
	14.4.37 and 14.4.38	Oppose in part	I/we support the approach adopted by PC7 of enabling the implementation of an alternative management regime for the Opihi River mainstem, which takes into account the available water within the Lake Opuha catchment, through a discharge consent held by the Opuha Dam operator. I/we are, however, very concerned about the implications of clause (b) of Policy 14.4.37 and Policy 14.4.38 for the efficient and effective management of the Opihi River. The requirements of clause (b) that an adaptive management regime (i.e. Level 1 or Level 2 flow regime) could only be entered at the start of a calendar month and must remain in place for the whole month fails to recognise that climatic conditions and water demand can change significantly over a month. These requirements would lead to delayed intervention, which in turn is more likely to lead to a fully drained Lake and associated loss of minimum flow control. For example, if the Level 1 regime thresholds are crossed a day after the first day of the month, Policy 14.4.37(b) would result in a month's delay in moving into a Level 2 regime - a month's delay is considerable. I/we also believe there is no valid reason to delay exiting a regime until the start of the next calendar month if conditions indicate that abstractions and minimum flows are likely to be able to be met for the upcoming months. This delay could be up to a month, would provide no appreciable benefit but would cause unnecessary stress to the Opuha and Opihi river systems and abstractors.	Adopt the decisions sought in the AMWG's submission on PC7 relating to Policies 14.4.37 and 14.4.38 to provide for the following: • The ability to enter into an adaptive management regime on any day if the requisite thresholds are met; • If an adaptive management regime is entered, the adaptive management regime must apply for a minimum of 14 days; and • The ability to enter into a Level 2 Regime only if a Level 1 Regime has been in place for at least 14 days; • The adaptive management regime "exit" thresholds are the equivalent of the Level 1 and Level 2 Lake level entry thresholds.

			I/we understand that the AMWG have been working to develop an adaptive	
			management regime that is based on being able to enter the regime on any day if the requisite thresholds are met. I/we also understand the group have been considering an 'exit' strategy – i.e. when an alternative management regime can be lifted. I/we consider these essential amendments in order to ensure the storage in the Lake Opuha is able to be managed in order to achieve connectivity and variability, and completely support the AMWG in their proposal.	
44.5 Dules				
Augmentatio n of the main stem of the Opuha and Opihi Rivers (page 155)	14.5.29	Oppose in part	I/we wish to highlight the crucial role OEFRAG has historically had in the management of flow releases from the Opuha Dam. The OEFRAG model has been hugely successful in ensuring the effective management of stored water in Lake Opuha during water short periods for the benefit of the Opuha and Opihi river systems and abstractors. This is largely due to the breadth of local knowledge, experience and technical expertise held by its members. I/we strongly believe that OEFRAG should continue to have an advisory role under PC7 on the implementation of an adaptive management regime. I/we understand that the AMWG are proposing that this advisory role be detailed within an operational management plan that would be submitted by OWL in its application for a discharge consent. This seems a logical and practical way of providing certainty to OEFRAG membership, and the wider community, that consultation will occur before any Level 1 or Level 2 regime is implemented.	Adopt the decisions sought in the AMWG's submission on PC7 relating to Policy 14.5.29, to require that an operational management be required as part of a resource consent application that includes details of the matters for consideration and a consultation process with OEFRAG to assist in the decision of if and when the Level 1 and Level 2 regimes should be entered into or exited.
	and Water Quan			
14.6.2 Environment al Flow and Allocation Regimes	Table 14(v): Minimum Flow Restrictions in the Opihi Freshwater Management Unit for AA and BA Permits (2025)	Oppose in part	Adaptive management regime I/we strongly support the inclusion of an adaptive management regime for Opuha and Opihi rivers in PC7 which proposes a tiered approach to environmental flows that would apply according on Lake Opuha levels, snow pack and inflows to Lake Opuha, based on the concepts developed by the AMWG prior to the notification of PC7. I/we are, however, concerned that the proposed adaptive management regime has simply been copied and pasted from an application for a plan change back in 2008, that was drafted by OEFRAG. While I/we appreciate that this '2008 application' would have reflected best knowledge at the time, 11 years on our knowledge and experience has greatly improved, especially in light of the dry period of 2014-16. I we understand that the '2008 application' was trialled by OEFRAG in 2014/15, but it was ineffective because:	Delete the partial restriction in Table 14(v) and adopt the decisions sought in the AMWG's submission on PC7 relating to the partial restrictions for AA and BA permits at Saleyards Bridge, which provide for variable monthly restrictions, as detailed in Table 14(v(iii)) of the AMWG's submission.
			 The lake level threshold for moving into a Level 1 Regime or Level 2 Regime equates to 50% full, which is too low to make any meaningful impact on Lake storage (i.e. it is too little to late). The reductions in minimum flows through the Level 1 and Level 2 Regimes would not be enough to make meaningful water savings, for subsequent use for the benefit of the downstream environment and abstractors. The ability to make water savings under a Level 1 Regime between April and August is severely constrained. In this regard it is noted that in 2015, WSD were in place for much of the winter in order to reduce the minimum flows 	

prescribed by the ORRP and improve the likelihood of a full Lake at the start of the 2015/16 season, to meet the needs of the downstream environment and abstractors.

I/we very much doubt that PC7's adaptive management regime would enable the flexibility required for proactive management of available storage in the Lake Opuha catchment. I/we anticipate that we will just have to resort back to relying on Water Shortage Directions into the future.

I/we understand that the AMWG have identified a set of revisions to PC7 that it believes will achieve the outcomes sought by PC7, which include:

- (a) Amendments to the "full availability" flows proposed in Table 14(v), which
 - Provide more water for the river environment during the summer months (by moving water from the shoulder periods to Jan/Feb);
 - Ensure sufficient flows for salmon migration (Mar/Apr) and whitebait
 migration (particularly Oct) (i.e. flows will be maintained at SYB
 during these critical periods at greater than 6 cumecs, which prior
 research has indicated is the flow required to maintain the mouth of
 the Opihi river open).
- (b) Amendments to the "Level 1 Restriction" flows proposed in Table 14(v), which also provide more water for the river environment during the summer than PC7 and otherwise respond to changing climatic conditions in the catchment; and
- (c) Amendments to the "Level 2 Restriction" flows proposed in Table 14(v), to align with PC7's proposed 2022 Opihi mainstem environmental flow requirements for AN permits of 2.6 cumecs at Stage Highway 1 (Table 14(u) and historical IFIM habitat modelling).

I/we support these proposed revisions.

Partial Restrictions

The approach taken to restrictions under PC7 represents a significant change from the present planning and consenting framework under the ORRP. I/we accept that the ORRP regime's 50% restriction when Lake Opuha reached RL375m was too late to make any measurable benefit (i.e. in terms of water savings). However, the approach under PC7 of linking a "Level 1 Restriction" to a flat 50% restriction and a "Level 2 Restriction" to a flat 75% restriction, will have significant consequences for the irrigators. This is too harsh and fails to recognise the benefits of the Opuha Dam which irrigators own and have funded.

Alternatively, I/we believe that the restriction regime should recognise the criticalities between river demand and irrigation for different times of the year (i.e. variable monthly restrictions). It should also provide for exemption for AA and BA permit holders in the

	North Opuha, South Opuha, Upper Opihi and Te Ana Wai Rivers which have lower reliability as a result of tributary-specific environmental flow regimes. I/we are also very concerned about the implications of the proposed partial restrictions being a daily 24 hour volumetric restrictions. This fails to recognise the operational constraints of the irrigation infrastructure of consent holders. It would also lead to gross inefficiencies in terms of water released from the Dam if, for example, a 50% restriction was in place and shareholders could only irrigate 12 out of the 24 hours. From our experience in the dry period of 2014-16, a restriction regime based on a fortnightly volumetric restriction led to a 'smoother' operation of the dam and greater water efficiency. I/we are sure that OWL and irrigators could provide the necessary real time information to ECan to provide them comfort from a compliance point of view.	
Table 14(w): Minimum Flow Restrictions in the Opihi Freshwater Management Unit for AA and BA Permits (2030)	I/we oppose the minimum flows under "Level 1 Restriction" and "Level 2 Restriction" in Table 14(w) for the reasons addressed above in relation to Table 14(v). I/we also fundamentally oppose the provision in Table 14(w) for increases in the "full availability" environmental flows beyond those proposed in Table 14(v), which would take effect from 2030. I/we understand that these increases in "full availability" environmental flows in Table 14(w) are intended to reflect the flow gains in the tributaries (Upper Opihi and Te Ana Wai) from increased minimum flows in 2030. I/we would argue, however, that this is not hydrologically correct, it has no underlying scientific rationale and does not appear to have been informed by any detailed analysis. As I/we understand it, the proposed 'full availability" environmental flows for 2030 have a number of significant issues: • It fails to recognise that the relationship between flows in the tributaries (Upper Opihi and Te Ana Wai rivers) and saleyards bridge is much more complex than the 1:1 ratio assumed in Table 14(w). • It would result in approximately 5.2 million cubic metres (on average per year) of additional water released from Opuha Dam to meet this increased minimum flow, as the AMWG's analysis indicates additional water from the Upper Opihi and Te Ana Wai would only be flowing 1% of the time. The release of this extra water would reduce the availability of stored water volume in Lake Opuha for environmental and irrigation releases by approximately 8% per year on average, which may increase the frequency of water shortages into the future. • the approach raises issues of equity as PC7 does not include a similar increase in the environmental flows for AN Permits. I/we also understand, from ecological work that the AMWG advisers have undertaken, that for the physical habitat of most native fish species, juvenile brown trout and salmonid spawning, increasing the minimum flows is actually detrimental.	Delete Table 14(w) in its entirety
Table 14(x): Oppo Alternative part Management	l/we have concerns about the thresholds proposed in Table (x) and how they may be implemented in the future. As an example, the Lake Level trigger for a level 1 regime is at 50% full. Our experience of 2014/15 is that this is fundamentally flawed and does not	Delete Table 14(x) and adopt the decisions sought in the AMWG's submission on PC7 relating to the alternative management regime

Regime Triggers	provide for early enough intervention. Overall, I/we believe that the thresh are too conservative to enable the proactive management of flows in the C	
	I/we understand the AMWG have agreed on an alternative set of threshold level, snow storage and lake inflows and I/we support these.	s for Lake

The specific provisions of PC7 that my submission relates to are:		My submission is that:		I/we seek the following decisions from Environment Canterbury (ECan)
Section & Page Number	Sub-section/ Point	Oppose/ support (in part or full)	Reasons	
14.4 Policies				
Tangata Whenua (page 130 – 132)	14.4.2 -14.4.5	Oppose in part	I/we feel that there needs to be greater clarity/explanation around the term 'culturally significant sites' used in PC7 Policy 14.4.2. At the moment it is unclear whether the 'sites' are those referred to in Policies 14.4.3 – 14.4.5 (i.e. Mataitai protection Zone, wahi tapu, wahi taonga, nohoanga, rock art management zones) or if they are other sites. This needs to be clarified for both the consenting authority and land owners. If sites are not specifically identified it becomes difficult for us, as landowners, to understand how we can avoid or minimise effects of our activities.	Amend Policy 14.4.2 to clarify the intended meaning of "culturally significant sites".
Efficient Use of Water (page 133)	14.4.12 (Replacement consented allocation based on past use)	Support in part	I/we support the exemption in Policy 14.4.12 from the general requirement to restrict volume and/or rate of take when an existing permit is replaced to reflect actual use (as prescribed by Method 1 of Schedule 10, CLWRP) for AA, BA and KIL permits, as permits affiliated to OWL. This is consistent with ZIPA Recommendation 4.9.5(II).	Retain Policy 14.4.12 as notified
Transfer of Permits (page 134)	14.4.13	Oppose	I/we understand that the primary focus of proposed Policy 14.4.13 is to address the phasing out of over-allocation. However, there is no clear statement within Policy 14.4.13 or PC7 regarding which of the various surface water catchments and groundwater allocation zones within the sub-region that have been assessed by ECan as "over-allocated". It is therefore unclear which surface water catchments and groundwater allocation zones that the directives contained in proposed Policy 14.4.13 will apply to. It is essential that certainty about the sub-region's over-allocated resources be provided in Policy 14.4.13.	Amend Policy 14.4.13 to include specific reference to the surface water catchments and groundwater allocation zones within the sub-zone that were over-allocated as at the notification of PC7. Clarify the exemption from the requirement to surrender allocation on transfer for water permits affiliated to OWL.
			Importantly, it is my/our understanding that none of the surface water catchments from which water is abstracted under permits affiliated to OWL are over-allocated, and this should be made clear.	
			Furthermore, clause (b) of proposed Policy 14.4.13 does not provide an express exclusion from the requirement to surrender allocation on transfer for water permits affiliated to OWL (i.e. AA, BA and KIL) Permits, as contemplated by ZIPA Recommendation 4.9.3(IV). This needs to be addressed.	
Out of Catchment Water (page 134)	14.4.14	Oppose in part	The intended meaning and scope of the term "catchment" in Policy 14.4.14 is uncertain. Specifically, it is not clear whether the intention of Policy 14.4.14 is to address water introduced from outside the OTOP sub-zone (which I/we believe is the intent of the Policy) or, for example, movement of water between the tributary catchments of larger catchments in the OTOP sub-zone. OWL considers Policy 14.4.14 requires amendment to ensure there is greater certainty around the intended scope and application of the Policy.	Amend Policy 14.4.14 so that the term 'catchment' is replaced by 'Orari-Temuka-Opihi-Pareora sub-region'

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Function Man	anamant Unit Co	anifia Dalinia		
Freshwater Mana Opihi Freshwater Management Unit: Surface Water Flows (page 141)	agement Unit Sp	Oppose in part	I/we support the principle of global consenting under Policy 14.4.40. However, as notified, the Policy would only enable Scheme-wide global consenting. It may be more appropriate (from an operational and/or management perspective) for global consenting of permits affiliated to OWL on a sub-catchment scale (e.g. for permits to cover all affiliated takes in each of the individual tributaries of the Opihi). PC7 should not foreclose that option.	Amend Policy 14.4.40 to remove reference to the term 'single'.
RULES				
Take and use of surface water (pages 144/145)	14.5.12 (Transfer of water permits)	Oppose in part	As already addressed earlier in the submission, I/we believe that further certainty is required in PC7 around which of the OTOP sub-region's freshwater resources are overallocated. This is necessary to provide appropriate guidance around which transfers condition 5(b) of Rule 14.5.12 will apply to. Condition 3 of Rule 14.5.12 does not provide an express exclusion from the required for volume on permits transferred for irrigation be calculated on the basis of past use, as contemplated by ZIPA Recommendation 4.9.3(IV). In addition, condition 5(b) of Rule 14.5.12 does not provide an express exclusion from the requirement to surrender allocation on transfer for water permits affiliated to OWL (i.e. AA, BA and KIL Permits), as also contemplated by ZIPA Recommendation 4.9.3(IV). This express exclusion needs to be made clear in the rules. As an Opuha Water shareholder, I/we believe it is unnecessary to restrict the transfer of permits affiliated to OWL from tributary catchments to the Opuha/Opihi mainstem or Lake Opuha, as done in Rule 14.5.12. Such transfers should be enabled by PC7 as they would assist in taking pressure off the tributary catchments and do not result in any increase in Opihi mainstem allocation (as OWL already releases water to compensate for the effects of such takes on the Opihi mainstem).	Amend Rule 14.5.12 to: Clarify which of the OTOP sub-regions freshwater resources are over-allocated Clarify the exclusion of OWL shareholders specified in ZIPA recommendations 4.9.3(IV). Provide for transfers of permits affiliated to OWL from the tributaries to the Opuha/Opihi mainstem and Lake Opuha.
Transfer of AA and BA Water Permits to a Principal Water Supplier (pages 155- 156)	14.5.31 and 14.5.32	Oppose in part	As noted above in relation to Policy 14.4.40, I/we support PC7's framework for global consenting. However, OWL the requirement that a global consent obtained through Rule 14.5.31 must authorise all existing AA and BA permits is unnecessary and problematic. It is also unnecessary for the rule to limit the rate of take to the lesser of current consented instantaneous rates of take or shareholding entitlements with Opuha Water Limited, as proposed under condition 2 of Rule 14.5.31, as this does not recognise the role of carriage water for OWL's sub-scheme consents, which are an essential component of such consents but are not covered by "shared" entitlements or water supply agreements with OWL.	Amend Rules 14.5.31 to delete reference to 'determined as the lesser of current consented instantaneous rates of take or shareholding entitlements with Opuha Water Limited'.