**IN THE MATTER** of the Resource

Management Act 1991

(RMA)

**AND** 

of the Proposed Variation 5 to the Canterbury Land and

Water Regional Plan

**IN THE MATTER** 

**Canterbury Regional Council** 

**TO BE HEARD BY** 

# Responses to Questions from the Hearing Panel at Hearing Submission by Gregory Philip Sneath on behalf of the

# **Fertiliser Association of New Zealand**

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# Response to Hearing Panel Questions on the Submission on the Proposed Plan Change 5 to the Canterbury Land and Water Regional Plan

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#### Introduction

- The Fertiliser Association of New Zealand ('FANZ' or 'the Association') attended the Hearing on the Proposed Plan Change 5 to the Canterbury Land and Water Regional Plan at the Lincoln Events Centre, on 23<sup>rd</sup> August 2016
- 2. A number of submission points in the original submission, (as shown in the table below), sought change but were not specific in the 'decision sought'. In particular, it was noted a number of submission points requested Canterbury Regional Council to provide for an alternative consenting pathway for farm systems which cannot be addressed by the Farm Portal or for which the Farm Portal is inadequate.
- 3. The question was asked: "Which submission points from the FANZ submissions or any other submissions on the Proposed Plan Change 5 would satisfactorily address the particular FANZ submission points identified?" (listed below).
- 4. The following table identifies the original FANZ submission points in question and then also identifies submissions by other parties with "Decisions Sought" which address FANZ original submission points.
- 5. As a broad overview, it is noted that the Hearing submissions by planning consultants on behalf of Fonterra, (Mr Gerrard Willis) and on behalf of Ravensdown, (Mr Chris Hansen) address an alternative consenting pathway, with very specific recommendations for the wording of Policies and Rules.
- 6. While both submissions are similar in approach, there are differences noted by FANZ, and when regarding these differences, FANZ recommends a preference to support the decisions sought by Mr Chris Hansen on behalf of Ravensdown. The reasons for giving preference to Mr Hansen's recommendation are as follows:
- 7. It is noted that one significant difference in the approach between Fonterra's Hearing submission and Ravensdown Hearing submission on the proposed wording of policies and rules is that Fonterra retains support for the application of "prohibited" activity status where a farm's OVERSEER N loss estimate does not meet the prescribed values. This approach is not consistent with FANZ view that it is inappropriate to use OVERSEER Nutrient Budget model to decide activity status for prohibited activity without discretion. FANZ does not consider that prohibited activity status is the only option to ensure satisfactory Good Management Practices and N loss limits are enforced.
- 8. OVERSEER provides an annual average, broad brush estimate of nutrient cycling in a farm system and is utilised as a decision support tool. Permitted activity thresholds provide a high level of confidence that N loss is within acceptable limits. However, given the large uncertainty in catchment modelling, farm system modelling and estimates of water quality

impacts, the economic and social consequences of prohibited activity for a farm with a mild exceedance of N loss could far out-way the risk of environmental consequence. Prohibited activity should apply only to practices which are clearly beyond all acceptable actions and where there are clearly unacceptable consequences. An N loss estimate using OVERSEER which in all cases is clearly beyond acceptable norms could be utilised as a prohibited activity threshold, but, if applied in this way, the N loss value should be well beyond the margins of Good Management Practice. FANZ considers that to select such a value for N loss estimate to represent 'Prohibited Activity' would send all the wrong signals to land users. To put it another way, OVERSEER estimates for N loss associated with Good Management Practices are expected to be well below a margin of confidence which should apply to a Prohibited activity value. Discretionary consent, as proposed in Mr Hansen's Hearing evidence provides for informed judgement when deciding resource consents and can send the correct signals regarding the limits of desirable N loss based on current science. Under Discretionary activity appropriate use of OVERSEER as a decision support tool is provided for.

- 9. It is also noted in FANZ original submission, [paragraph 9] that there have been a wide range of views expressed on the Farm Portal, including several submitters, (e.g. Submitter no's, 267, 1240, 810, 1439, 2649), with sufficient concern to seek the Farm Portal be removed from Plan Change 5 entirely. In FANZ Hearing submission [paragraphs 55 to 57] FANZ also observed that an alternative to the farm portal or where the farm portal is inadequate could rely instead on nutrient budget results from audited good management practice to define the N loss values for a range of 'typical farm systems' when farming responsibly. (i.e. "the reported GMP N loss from similar audited "A" grade farms could provide a bona fide estimate of GMP N loss"). Farms with comparable farm systems, soil and climate but with N loss significantly greater than the typical range of GMP N losses demonstrated under audited assessments, would fail to comply and require increased scrutiny. Given the highly variable nature of farm systems, clear guidance documents on such an assessment process would be required. However, FANZ has not formally pursued this option and has continued to support the process based on MGM.
- 10. FANZ has retained good will in supporting the development of the on-going MGM project and resultant Farm Portal, and specific comment in relation to identified FANZ submission points and alternative consent pathways for policies and rules are provided below.

	c provisions of the hat my submission	(2) My submission is that: (include whether you support or oppose the specific provisions or wish to have them amended and the reasons for your views.)		(3) I seek the following decisions from Environment Canterbury: (Please give precise details for each provision. The more specific you can be the easier it will be for the Council to
Section & Page Number	Sub-section/	Oppose/support (in part or full)	Reasons	understand your concerns.)

For simplicity, FANZ original submissions point and decision sought are reproduced below only as limited extracts of the original submission points

ORIGINAL				
SUBMISSION Sect 2 p3-1	Definitions:			Seek a long term solution for robust modelling
3000 2 p3 1	Baseline GMP Loss rate			rules of the Farm Portal, in particular fertiliser modelling rules.
				Regardless of the modelling rules: Consequential amendment to Policies and Rules such that an exceedance of the Baseline GMP Loss Rate results in restricted discretionary or discretionary consent and not a prohibited activity status.
RESPONSE	RE: Long term sol	ution to modelling ru	s;	
	_		·	ubmission on behalf of Ravensdown and Dr Bruce
	Thorrold's submis	ssion on behalf of Dair	IZ, is supported.	
	because, as descri level of N leaching	ibed in Dr Metherill's g. Hence a reduction in eduction in N input or	idence [paragraph 43], farms with a re N input on these farms is likely to have	en surplus provides a more practical application elatively high N surplus are likely to have a high e the greatest benefit in reduced N leaching. It is ver impact on farm production than on farms with

Dr Thorold's Hearing evidence [Paragraphs 5.13, 5.14] comments that the N Surplus proxy as proposed can be applied directly to all pastoral farms, and application of an N surplus method to arable or horticultural farms is also possible, but would possibly require different thresholds.

RE: amendment to Policies and Rules such that an exceedance of the Baseline GMP Loss Rate results in restricted discretionary or discretionary consent and not a prohibited activity status

As discussed in the introduction above, the planning evidence of Mr Hansen (on behalf of Ravensdown) is generally supported, and supported in preference to the recommendation of Mr Willis in relation to those specific policies and rules which Mr Willis proposes prohibited activity status a result of farm systems failing to meet N loss estimates. Prohibited activity status based on OVERSEER N loss estimates is opposed.

D C: 111	
Definitions:	Amend the Farm Portal so that in the interim a
Farm Portal	work around is provided, however over the long
	more satisfactory and robust modelling rules
	are sought for determining GMP N loss values.
	are sought for determining civil 14 loss values.
	An alternative process is still required as not all
	farm systems can be satisfactorily be
	represented in the Farm Portal.
Schedule 28	Amend Schedule 28 to develop a 'work around'
Good	for the fertiliser modelling rule, or alternative
Management	pathway.
Practice	
Modelling Rules	In addition, provide an alternative pathway for
	those farms which cannot be addressed by the
	Farm Portal.
	Tariii ortan
RE: Amendment to the Farm Portal and providin	g a long term solution to modelling rules:
	Schedule 28 Good Management

As above, FANZ supports the alternative fertiliser proxy rule based on nitrogen surplus as presented by Dr Metherell and Dr Thorrold. It is recognised the proposed rule are not perfect, but are considered far preferable compared the fertiliser proxy rule proposed in Schedule 28, and if the alternative (N Surplus) fertiliser proxy is adopted it may be further improved over time through plan change.

#### RE: Alternative consenting pathway for farm systems not satisfactorily represented in the Farm Portal

Mr Hansen's Hearing submission at paragraphs 47 recommends a new policy, Policy 4.38AB which at 4.38AB (c) provides for a qualified adviser, e.g. "Accredited Farm Advisor" or "Certified Nutrient Management Adviser" to justify where the farm portal or Nutrient Budget cannot be representative of the farm N loss, and an alternative consenting pathway requiring a Farm Environment Plan and adoption of Good Management Practices. This suggested policy is given effect to by a recommended new rule 5.46AA [explained in Paragraph 50 for the Red Zones, and to apply equally to the Orange and Lake Zones, and paragraph 51 further explains amendments to condition (iii) in addition to those above, to apply for the Green and Blue Zones).

Mr Willis's submission provides for very similar approach, to that suggested by Mr Hansen, requiring Certified Farm Consultants to verify that all Good Management Practices are employed, however the suggestion in Mr Willis's proposal to retain prohibited activity based on N loss estimates is opposed, as the OVERSEER N loss estimates should provide decision support, as occurs with discretionary consent.

Sect 2 p3-2	Definitions; Good		Amend the definition for Good Management Loss Rate to provide for those farms systems
	Management		which the Farm Portal cannot generate a
	Practice Loss		satisfactory GMP loss rate.
	Rate		
			Other options for arriving at or describing Good
			Management Practice N loss rates to be
			considered.
RESPONSE		finition for Good Ma ctory GMP loss rate.	nagement Loss Rate to provide for those farms systems which the Farm Portal cannot
	· ·	· ·	d a specific alternative definition, except as discussed above with improved modelling rtal, or perhaps as indicated in the FANZ submission where GMP would be defined by

aggregated analysis of the N loss reported by farms of similar farm type, soils and climate which have been audited as meeting Good Management Practices ("Grade A" audited farms). It is noted the Egg Producers board in its original submission simply sought exemption, as OVERSEER cannot be applied to that land use activity.

### RE: Other options for arriving at or describing Good Management Practice N loss rates to be considered.

The Hearing evidence of Dr Metherell and Dr Thorold provide alternative methods for generating the GMP N loss rate for pastoral farms with an alternative fertiliser proxy based on N surplus

As discussed above, the alternative fertiliser proxy based on N surplus is supported by FANZ.

FANZ original submission on the following rules and policies sought alternative pathways for circumstances where the farm system cannot be addressed by the Farm Portal. (reproductions below are only limited extracts of the original submission points) Part A -**Red Zones** Rule 5-44 A In addition; provide an alternate pathway for Sect 5 p 5-4 circumstances where the farm system cannot be addressed by the Farm Portal. An alternative pathway is required for farm Lake Zones Rule 5-52 A systems that cannot be addressed with the Sect 5 p 5-8 Farm Portal. Orange Zone In addition; provide an alternate pathway for Rule 5-54 A Sect 5 p 5-9 circumstances where the farm system cannot be addressed by the Farm Portal. Orange Zone Amend Rule 5.54 B condition (2) to provide for Rule 5-54 B Sect 5 p 5-9 farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.

Orange Zone Sect 5 p 5-10	Rule 5-55 A		Amend Rule 5.55A condition (2) to provide for an alternate pathway for farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.  Under matters for discretion, include provision to consider demonstration of meeting Good Management Practice.
Orange Zone Sect 5 p 5-11	Rule 5-56 AA		Amend Rule 5.56 AA condition (2) to provide for an alternate pathway for farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.
Green and Light Blue Zones Sect 5 p 5-12	Rule 5- 57 B		In addition; provide an alternate pathway for circumstances where the farm system cannot be addressed by the Farm Portal.
Green and Light Blue Zones Sect5 p 5-12	Rule 5-57 C		Amend Rule 5.57 C condition (2) to provide for an alternate pathway for farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.
Green and Light Blue Zones Sect5 p 5-13	Rule 5-58 A		Amend Rule 5.58A condition (2) to provide for an alternate pathway for farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.
Part B –			
Waitaki Sub- region	Waitaki Sub- region Nutrient Management		

Nutrient Management			
Section 15B P 4-9	Policy 15B.4.18	provide for uncertainty in GMP loss rates and an alternative pathway for GMP N loss values.	
Sect 15B P 4-10	Policy 15B.4.20	provide for an alternative pathway for farm systems that cannot be addressed with the Farm Portal	
Sect 15B P 4-11	Policy 15B.4.24	provide for an alternative pathway for farm systems that cannot be addressed with the Farm Portal.	
Sect 15B p 4-14	Rule 15B.5.7	Amend Rule 15.5.7 to provide for an alternative pathway where farm systems cannot be addressed by the Farm Portal to develop GMP Loss rates.	
Sect 15B P4-15	Rule 15B.5.10	provide for an alternative pathway where farm systems that cannot be addressed by the Farm Portal to develop GMP Loss rates.	
Sect 15B P 4-21	Rule 15B.5.19	Amend Rule 15B.5.19 condition (2) to provide for farm systems which cannot use the Farm Portal to generate a GMP N loss value or a Baseline GMP N loss value.	
RESPONSE	RE: Alternative consenting pathway for farm systems not satisfactorily represented in the Farm Portal Comments remain as per discussion above, in response to Sect 2, p3-1, Definition: FARM PORTAL i.e.  Mr Hansen's Hearing submission recommends provision for a qualified adviser, e.g. "Accredited Farm Advisor" or "Certified Nutrient Management Adviser" to justify where the farm portal or Nutrient Budget cannot be representative of the farm N loss, and an alternative consenting pathway requiring a Farm Environment Plan and adoption of Good Management Practices. This		

suggested policy is given effect to by a recommended new rule 5.46AA [explained in Paragraph 50 for the Red Zones, and to apply equally to the Orange and Lake Zones and paragraph 51 for the Green and Blue Zones).

Mr Willis's submission provides for very similar approach, to that suggested by Mr Hansen, requiring Certified Farm Consultants to verify that all Good Management Practices are employed, however the suggestion in Mr Willis's proposal to retain prohibited activity based on N loss estimates is opposed, as the OVERSEER N loss estimates should provide decision support, as occurs with discretionary consent.

Section 15B P 4-9	Policy 15B.4.18			Amend Policy 15B.4.18 (b) to provide a clear direction on the extent to which Irrigation schemes can limit N loss such that their contribution to the catchment load and water quality outcomes is controlled and will ultimately meet catchment limits, rather than presenting the catchment limits and outcomes as the control point.
RESPONSE	" the nitrogen loand 15B(e) for the As per response be No specific mechas Scheme or princip values in Tables 1  As per discussion provide confidence	read limit specified in To e Valley and Tributaries elow for Rule 15B.5.1 anism has been identifule water supplier to not 15B(c), and 15B(e) for each of the in-water in meeting the in-water specified in the in-water in-water in-water in t	es Zone or Whitneys Creek Zone"  O: fied in the Proposed Plan Change on the Proposed Plan Change of the Proposed P	g: and groundwater quality limits set out in Tables 15B(c) or any submissions which will provide for the Irrigation cheme nitrogen losses do not result in exceeding the ment to reference the mechanism in Schedule 27 to ete reference to Table 15B.(c) and (e).  y Genesis Energy (Submission ID 67192)

Sect 15B P4-15	Rule 15B.5.10			Amend Rule 15B.5.10 to provide a standard or a mechanism by which the risk of exceeding water quality attributes in Tables 15B (c), (d), (e)and (f) can be assessed,
RESPONSE	that a "nitrogen I 15B(e) and 15B(f).  With the absence Plan Change, FAN provision will rely compared to all cunderstanding of (f) at each of the While no submiss delete 15B.5.10 (Forest & Bird (Surconditions, except An alternative apfor "Assessment Table 15B (f), if a and (e) within Rull If process does not a) producin	oss calculation for the loss calculation for the loss of any such mechanized does not understated on sophisticated mether load sources, in the time frames which processed in the found which processed from the loss of the l	the Nutrient User Group is required under 15B.5  Inism either identified in the sand how this provision modelling and an understincluding hydrological flatch will give rise to a rise provides a solution, regular its original submission 15B.5.10 in its entirety.  Illows for it, is to amendate a Load", which could be nor can be estimated. To adment, FANZ considers	In the proposed Plan Change or identified in any submission on the can be complied with. FANZ considers that compliance with this standing of the relative N load to water of the nutrient user group ows and an understanding of the attenuation factors, and an sk of exceeding any one of the values in the Tables 15B (c) (d) (e) and rettably no submission was found which directly states that it seeks expressed similar concerns about inability to implement the and sought deletion of the Rule 15B.5.10 in its entirety.  If Rule 15B.5.10 in recognition that Schedule 27 provides a mechanism used to estimate the potential to in-river or in-lake loads listed in this approach would require deletion of reference to Table 15B (c), (d) a choice is required between:  and Forest & Bird's view cannot be implemented and enforced, or

FANZ preference rest with the alternative approach to recognise the Schedule 27 process as it applies to the Waitaki sub-region and delete reference to Tables 15B (c) (d) and (e) within 15B.5.10 (3).

Sect 15b	Policy 15B.4.23		Delete Policy 15B.4.23, or				
P 4-11			in the alternative,				
			Amend Policy 15B.4.23 to shift the onus back to				
			regional and district council to identify areas of				
			significant indigenous biodiversity.				
Sect 15B	Rule 15B.5.20		Amend Rule 15B.5.20 to shift the onus back to				
P 4-22			regional and district council to identify areas of				
			significant indigenous biodiversity.				
RESPONSE	From other subn	nissions:					
	Wolds Station (S	ubmitter ID 67151) see	ks deletion of policy 15.4.23.				
	Amendments wh	ich would move the o	nus back to regional and district council to identify areas of significant indigenous				
	biodiversity inclu	biodiversity include the original submission by Dairy NZ (Submitter ID 52271) and Federated Farmers (Submitter ID 67199) which					
	sought to delete	sought to delete Rule 15B.5.20 (3).					
	The Officer repo	The Officer report Paragraph 22.19 acknowledges FANZ submission on Policy 15B.4.23, but does not address it specifically					
	The Officer report Paragraph 22.31 and 22.32 identifies that under the RPS:						
	use of land ir a. a territa of indige b. there a	the beds of rivers and orial authority has ider nous fauna, that inclu	share responsibility for specifying objectives, policies and methods for the control of the lakes and in wetlands for maintenance of indigenous biological diversity only where: stified in a district plan an area of significant indigenous vegetation or a significant habitat des a bed of a river or lake or a wetland; or on clearance provisions in a district plan that apply to an area of the district that includes a and.				
	control of the	e use of land for maint ne area, in the beds of	PS states that the responsibility for specifying objectives, policies and methods for the enance of indigenous biological diversity rests with the Council in respect of land in the lakes and rivers and in wetlands. Control rests with territorial authorities in respect of land				

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	The Officer report	t recommends retain	ing the policy and rule but with amendments strengthening them.
	Of the submission	ns identified. FANZ pr	reference lies with DairyNZ and Federated Farmers for deletion of Rule 15B.5.20(3).
Sect 15B P 4-29	Rule 15B.5.35	Support in part	Retain Rule 15B.5.35, but clarify the term 'agricultural nitrogen load limit', in reference to Schedule 27, Part C, because this term does not feature in this Schedule.
RESPONSE	It is noted that Table 15B (f) refers to "nitrogen load limits" which are in-river or in-lake limits after attenuation. The Plan change refers throughout to "Agricultural nitrogen load limit calculated in accordance with Schedule 27" where Schedule 27 refers to "on-land nitrogen load" or "land based nitrogen load". FANZ considers that consistency in terms is desirable.  FANZ original submission included the comment: "For clarity it should be identified that 'agricultural nitrogen load limit' referred to in Rule 15B.5.35 is the same as the 'land based nitrogen load limit' referred to in Schedule 27 Part C."  FANZ original submission is supported, such that where ever it appears in the Proposed Plan Change, the term "Agricultural nitrogen load limit calculated in accordance with Schedule 27" is amended to "land based nitrogen load limit calculate in accordance with Schedule 27".		
Sect 15B P 4-37 to P 4-44	Tables 15B(a) to 15B(j)		Retain tables 15B(a) to 15B(j), subject to further scrutiny.
RESPONSE	FANZ is guided by the specialist advice and recommendations on Tables 15B (a) through to 15B (j) submitted by the water quality specialists representing DairyNZ. Having reviewed written submissions, FANZ supports the specific amendments in the original submission and in the Hearing evidence presented by Dairy NZ.		

# **Concluding Comment:**

Thank you very much for the privilege of additional time to respond to questions presented in the Hearing. I hope this additional information is of assistance.

**Greg Sneath** 

**Executive Manager** 

S. Sneath.

Fertiliser Association of New Zealand

End.