

Harlow, Cathy

From: Michelle Mehlhopt <michelle.mehlhopt@wynnwilliams.co.nz>
Sent: Tuesday, 16 March 2021 09:31
To: ORC
Cc: Planning Consent Changes; Bridget Irving; claire
Subject: Primary sector conferencing - datasets and scenarios [WW-ACTIVE.FID473913]

Dear Cathy

Below is a summary prepared by Mr Wilson of what is currently proposed by the technical experts for ORC, Landpro and OWRUG involved in the primary sector conferencing in relation to agreed datasets and scenarios. Mr Wilson updated Mr MacTavish late yesterday as to progress but Mr MacTavish will not have had an opportunity to confirm his agreement with what is set out below. Mr Wilson will contact Mr MacTavish again this morning. We will also confirm the below with Counsel for Horticulture NZ and McArthur Ridge, noting that Mr McIndoe is attending the conferencing for Horticulture NZ and OWRUG.

Given the timing I haven't had an opportunity to formalise this in a memorandum but I would be grateful if you could pass this on to the Court and Commissioner Dunlop. It may be that Commissioner Dunlop would like to arrange a call with the experts to confirm matters. However, the experts are working constructively together.

Kind regards,
Michelle

Current position of ORC, OWRUG, Landpro experts regarding datasets and scenarios for primary sector conferencing

Given the timeframe for conferencing the suggestion is that the Council run its methods:

1. Schedule 10A.4 as notified (18 March 2020)
2. Schedule 10A.4 with recommended changes (4 March 2021 - Appendix 1 to supplementary evidence of Tom de Pelsemaeker 14 March 2020)

Landpro runs their method:

3. Landpro/Sally Dicey's method – including Aqualinc (OWRUG to confirm the exact version)

By 5pm on 20/3/21 (Saturday) both parties will provide their completed data sets to each other. This will include

- a. Results
- b. Any assumptions used in running the data set:
 - i. Including gaps filled and the reasons why.
 - ii. Exceedances considered and the reasons why.
- c. Landpro/OWRUG will also provide the information necessary to check Landpro calculations.

If there are any material issues with the data sets these will be raised before conferencing, but the general expectation is that each party knows how to run their own method and their numbers will be trusted.

Outstanding issues:

1. Council to provide raw data to all parties as soon as the sites are agreed.
2. OWRUG to confirm the exact Landpro/Dicey method.
3. OWRUG/Landpro to confirm Aqualinc can be run on all the sites listed below.

The sites to be examined will be:

	Pisa Range		Irrigation of vineyard and cherries, domestic, stock water and frost fighting, plus some storage. Multiple shareholders highly valued investments.	Good example of a data gap where we can look at what happens if you fill it vs what happens if you don't.
	Pisa Range		Irrigation, stockwater, plus new storage.	Good example of abstraction that has varied over time for the inclusion of new storage on farm. Good record that demonstrates compliance with l/s consent limit, but variable pattern of taking.
	Manuherekia		Mainstem Manuherekia take. Irrigation Scheme. One meter, one permit.	Example of a complete date set where the data should be fairly similar.
	Poolburn		One meter one permit examples feeding a scheme.	Example of a data set with a lot of taking over limits. Should generate different numbers between methods.
	Alexandra		Irrigation of pasture and horticulture, stock drinking water, storage, Examples of one meter one permit.	These takes demonstrate abstraction records that rely on the natural run of the creek and contribute to two storage dams that support highly valued orchards on the terraces above the Clutha River.
	Pigburn			Example of one meter one permit with variable rate of take, and metering reliability issues.
	Manuherekia		Dairy irrigation, stock drinking, dairy shed wash water, storage (optional), irrigation scheme user. Highest priority mainstem user, voluntary flow sharing. Closed system, no races.	A more complex situation, 2 meters to 1 permit.

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