



**RE: FW: WWLA - Catchment Flow Models Peer Review - Input from Hoa please**

**Stuart Savill** [Redacted]

26 August 2020 at 10:59

To: Josh Mawer [Redacted]

Cc: Jon Williamson [Redacted]; Chris Frost [Redacted]

Hi Josh

Apologises for delay in response. I have read revised scope and can confirm that I am comfortable with it.

Thanks.

**Ngā mihi**

**Stuart Savill**

**Consents Manager  
Northland Regional Council » Te Kaunihera ā rohe o Te Taitokerau**

Phone [Redacted]



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**From:** Josh Mawer [Redacted]  
**Sent:** Thursday, 20 August 2020 2:02 pm  
**To:** Stuart Savill [Redacted]  
**Cc:** Jon Williamson [Redacted]; Chris Frost [Redacted]  
**Subject:** Re: FW: WWLA - Catchment Flow Models Peer Review - Input from Hoa please

Hi Stuart,

Thanks for your feedback and comments on the proposed review scope. Please find **attached** an updated review scope letter.

We have incorporated your suggested changes and added more detail into the 'Overall Appropriateness' section. It now reads as follows:

- " · Please provide comment on the overall appropriateness of the model and its ability to simulate daily streamflow, particularly in ungauged catchments, and catchments with no measured rainfall data (VCSN data were used).
- Comment on the overall appropriateness of the model in regards to determining key flow statistics (e.g. MALF and median flow) used in determining allocation limits. Particularly in smaller sub-catchments where measured flow data are not available.
- Comment on the adequacy of discussion related to hydrological risk in terms of:
  - o Ability to fill the reservoirs; and
  - o accuracy for consenting purposes,
- Comment on whether the model architecture (the model framework, and overall methodology) could be transferred to other catchments in Northland, outside of the areas covered by the two models being reviewed."

The request to add "Comment on whether actual rainfall data from catchments should be included in the model", we believe is already covered by the question "Comment on the appropriateness of key model input data used."

If you are comfortable with the updated scope, can you please confirm via email. We will then engage David Leong to start the review.

Thanks,

Kind Regards,

**Josh Mawer**  
Williamson Water & Land Advisory

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On Fri, 14 Aug 2020 at 13:29, Stuart Savill [REDACTED] wrote:

Hi Josh

Had a brief chat with David Leong re peer review which was useful. He couldn't speak to much about this review as he hasn't seen scope yet. He did state that once he has seen documents he will obviously provide comments on them. In the spirit of collaboration it would be good if council could also see those comments prior to scope of peer review being finalised.