

# FRIENDS of Banks Peninsula Inc.

PO Box 56, Duvauchelle, 7545, New Zealand



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26 June 2017

To: Tara King

**Christchurch City Council Senior Engagement Advisor**

Please find attached a further Official Information Request to do with the **Akaroa Reclaimed Water Beneficial Reuse, Treatment and Disposal Options Consultation**

We would appreciate that our request is supplied with pdf or excel files as appropriate, and prefer documents to be conveyed electronically rather than posted.

Yours sincerely

A handwritten signature in black ink, consisting of the initials 'K.S.' followed by a stylized, cursive flourish.

K.S Thompson  
Deputy Chair Friends of Banks Peninsula  
Friends of Banks Peninsula

cc: Sue Church, Secretary Friends of Banks Peninsula

cc: Brent Martin, Friends of Banks Peninsula committee member, [brent.i.martin@gmail.com](mailto:brent.i.martin@gmail.com)

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**To: Christchurch City Council**  
**From: Friends of Banks Peninsula**  
**Date: 16 June 2017**

## Official Information Request 1 lodged 26 June 2017 by Friends of Banks Peninsula:

Please supply the following information under the Local Government Official Information and Meetings Act:

- The model used by the Christchurch City Council and its consultants to determine the land area and storage pond capacity required for the Akaroa Wastewater land disposal options described in the Akaroa Reclaimed Water Beneficial Reuse, Treatment and Disposal Options Consultation, sourced from Akaroa Wastewater Investigation of Alternative Sites for Land Irrigation, CH2M Beca Ltd, 31 March 2017, Table 5-1 on page 20 and Figure 5-3 on page 31, including the following:
  - The *algorithm* used to calculate the land area required for disposal and storage pond capacity
  - A *list and description of all parameters used by the algorithm*: such as, but not limited to:
    - Flow data and how it has been determined
    - Evapo-transpiration rates throughout the year and how they have been determined for both pasture and native tree options
    - Leaching rates throughout the year and how they have been determined for both pasture and native tree options
    - Rainfall data and where it has been sourced
    - Calculation of maximum and average irrigation rates throughout the year
    - Any other parameters used for this modelling
  - The *actual values* of each of these parameters used to determine the land area storage and storage capacity listed in the consultation
  - A list and descriptions of the *assumptions* on which the model is predicated.
- We note a significant discrepancy in Storage pond volume maximum levels between the Figure 5-3 page 31 and Figures 5-5 and 5-6 page 34 for the 2013 and 2009 winter figures. Please provide an explanation of why these two charts present different values for the blue storage volume line.

Please email any technical questions about this request to Brent Martin [brent.i.martin@gmail.com](mailto:brent.i.martin@gmail.com)

**Address for Response:**  
**Friends of Banks Peninsula**  
**PO Box 56**  
**Duvauchelle, 7545**  
**Email: [friendsbankspeninsula@gmail.com](mailto:friendsbankspeninsula@gmail.com)**