

# FRIENDS of Banks Peninsula Inc.

PO Box 56, Duvauchelle, 7545, New Zealand



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friendsbankspeninsula@gmail.com  
30 August 2017

To: Tara King

**Christchurch City Council Senior Engagement Advisor**

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

Please note these are separate requests.

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.

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)**

Yours sincerely



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)

cc: Lee Robinsons, Friends of Banks Peninsula committee member, [lee.robinson@srblaw.co.nz](mailto:lee.robinson@srblaw.co.nz)

cc: Prudence Steven QC

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

## **Official Information Request 1 lodged 30 August 2017 by Friends of Banks Peninsula:**

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

- Please explain what is involved in completing a Check Validation process for wastewater flow meters in Akaroa?

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

## **Official Information Request 2 lodged 30 August 2017 by Friends of Banks Peninsula:**

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

- Please state the date when the new flow meters were installed and started collecting data on the Akaroa wastewater system. We refer to the new meters shown in the diagram supplied in response to our June 26, 2017 OIA request.
- Please state whether the old faulty flow meter is retained to record data in parallel.
- Please supply all daily flow data from the old faulty meter and the new meter being used to produce data for reporting to Ecan from the date the new meter was installed
- Is the wastewater flow data currently on the Council web page for July 2017 based on the new flow meters? If so, why is the flow identical (580 m<sup>3</sup>) from 1 July 2017 to 7 July 2017?
- On how many days since the new flow meter was installed has the daily flow exceeded the allowed flow and thus breached consent conditions?

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

## **Official Information Request 4 lodged 30 August 2017 by Friends of Banks Peninsula:**

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

- Please provide your revised estimates of the level of infiltration into the Akaroa wastewater network, based on the new wastewater flows
- What is the volume of leachate from the Akaroa landfill? Is this being included in the wastewater flows that are now being reported?
- What analysis has been carried out of the contaminants in the landfill leachate water?

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

## Official Information Request 5 lodged 30 August 2017 by Friends of Banks Peninsula:

1. Please supply the following information regarding the parameters used to model the required storage for BECA Report Figure 5-1:
  - a. Is this chart based on design flows or actual historic flows for the period modelled?
  - b. What was the minimum soil moisture deficit maintained (i.e. the minimum soil moisture deficit required before or after irrigation can occur/has occurred), and what is the justification for the value selected with regard to both soil stability and growing conditions and overall health of the foliage in the irrigation area?
  - c. What amount of rainfall is assumed to be intercepted by the forest canopy?
  - d. What evapo-transpiration rate was assumed for irrigation to trees during this modelling?
2. Please supply the inputs and output of the modelling that was used to generate the BECA report chart 5-1, i.e. for each day of the modelled period, please supply the following data in electronic form (eg Excel spreadsheet):
  - a. The date
  - b. The wastewater flow
  - c. The daily rainfall
  - d. The calculated soil moisture deficit prior to irrigation
  - e. The amount of wastewater irrigated
  - f. The resulting pond level
3. Please supply estimates of the sensitivity and uncertainty limits of the modelling that produced Chart 5.1. In particular, BECA indicate that the storage volumes “remain indicative at this stage”; what is the estimated range of possible values for the final storage volume required for irrigation to trees and irrigation to pasture? How sensitive is the modelling of storage volume to variation in the following parameters/variables:
  - a. Evapotranspiration rate
  - b. Rainfall intercepted by tree canopy
  - c. Projected flow rates
  - d. Annual rainfall/winter rainfall totals, and winter rainfall pattern? We note the huge variation in pond storage levels between the years is *not* directly related to annual rainfall.
  - e. Target soil moisture deficit

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

**Official Information Request 6 lodged 30 August 2017 by Friends of Banks Peninsula:**

- Please supply your analysis of the submissions in response to the Akaroa Reclaimed Water, Beneficial Reuse, Treatment and Disposal Options consultation 3 -30 April, extended to 8 May.

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

## **Official Information Request 7 lodged 30 August 2017 by Friends of Banks Peninsula:**

- Please supply the results of any work the Council has conducted on the method and cost of improving the Akaroa Wastewater treatment process at the new plant to a standard suitable for the watering of salad crops.

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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

**Official Information Request 8 lodged 30 August 2017 by Friends of Banks Peninsula:**

- Please state whether any staff from Christchurch City Council attended the Wastewater Forum held on April 21, 2017 in Palmerston North
- If so, please state the names of the staff who attended



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**To:** Christchurch City Council  
**From:** Friends of Banks Peninsula  
**Date:** 30 August 2017

**Official Information Request 9 lodged 30 August 2017 by Friends of Banks Peninsula:**

- Please state the dates of any meetings regarding the proposed Akaroa Wastewater Treatment plant and water disposal or irrigation options held with Ngai Tahu or runanga representatives since the flow meter was discovered to be faulty.
- Please supply the notes of any meetings regarding the proposed Akaroa Wastewater Treatment plant and water disposal or irrigation options held with Ngai Tahu or runanga representatives since the flow meter was discovered to be faulty.