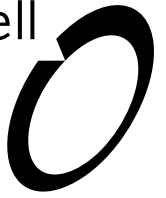


Boffa Miskell



Operational Spray Plan

Lake Benmore Aquatic Weed Management
Prepared for Land Information New Zealand

29 April 2023

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1.0 Permitted Activity & Resource Consents

Treatment of lakeweed at Lake Benmore using the herbicide, diquat, is a permitted activity under the Canterbury Land and Water Regional Plan under section 'Pest Control and Agrichemicals', Rule 5.2.2 - Discharge of an agrichemical. Please see a link to the Plan below:

<https://www.ecan.govt.nz/your-region/plans-strategies-and-bylaws/canterbury-land-and-water-regional-plan/>

Sailors Cutting is within a Community Drinking Water Drinking Protection Zone as designated by Environment Canterbury. A resource consent has been obtained to treat lakeweed with the herbicide, diquat. (consent number CRC213071). This consent stipulates additional requirements to ensure the safety of drinking water. This consent expires on 11 May 2026.

2.0 Pre-Spray Monitoring and Proposed Control Sites and Dates

A surface-based aquatic weed delimitation survey was carried out on Saturday 29th April 2023. At the time of survey, the weed and water conditions were fit for diquat treatment

The following sites are scheduled for treatment:

1. Ahuriri Delta and Arm
2. The Neck

3.0 Herbicide Application

Aerial or boat based aquatic weed spraying is scheduled to begin from **Monday 1st May 2023 and may continue intermittently to Wednesday 31st May 2023**, as weather, weed and water conditions permit. Treatment will not take place during weekends or on public holidays.

As a precautionary measure only, Land Information New Zealand advises users not to take water from Lake Dunstan to consume or for irrigation purposes from the vicinity of the treatment area until **24 hours** after treatment has been completed.

Notices will be placed at www.linz.govt.nz 24 hours prior to the planned spray dates. Warning signs will be placed at authorised public boat ramps prior to and during treatment and will be removed 24 hours after treatment. Changeable weather conditions may result in delays to weed spraying.

Please scan the QR code below to access the most up-to-date information on control timings.



The Hazard classification for diquat is 6.1C, 6.3A, 6.9A, 8.1A, 9.1A and 9.3C.

Diquat factsheet prepared by NIWA.

<https://niwa.co.nz/sites/niwa.co.nz/files/Diquat%20FAQ%20Download.pdf>

Reglone Diquat Herbicide Label.

<https://syngenta.my.salesforce.com/sfc/p/#24000000Yk1o/a/1o0000005A43/yCjCCVLyKhxx9ee7wmLCZxrNhS2Xtb7IJ9QtHsZtUDQ>

4.0 Notifications

4.1 Newspaper advertisements

The Press

Publication Dates:

- Monday 24th April 2023
- Monday 1st May 2023

4.2 Stakeholder emails

Emails are sent to the comprehensive stakeholder list in advance of proposed spray dates, the day before spraying, on the day(s) of spraying and at the conclusion of spraying. Please email biosecurity@boffamiskell.co.nz if you would like to be added to the mailing list.

5.0 Signage

Warning signage is erected at key lake access points prior to application and is removed once the 24 hour stand down period for swimming, fishing and taking water has elapsed. Signage will be erected at the locations in the map below.



Figure 2. Warning signage locations



Figure 3. An example warning sign that will be erected key lake access points

6.0 Water Takes

Identification of consented water takes is undertaken using the Regional Council's surface water take information.

- There is one consented water take proximate to the planned spraying within Lake Benmore. CRC155509, Waitaki District, Surface Water Take, Take, Use, Dam or Divert water. Expires 19/05/2045.

This is a surface water abstraction point in the north-west corner of the Ahuriri Arm, which is used for irrigation. The landowner has been contacted in advance of this spraying operation and the water take will be shut down for a period of 24 hours following the spraying event. No other water takes are affected by this operation.

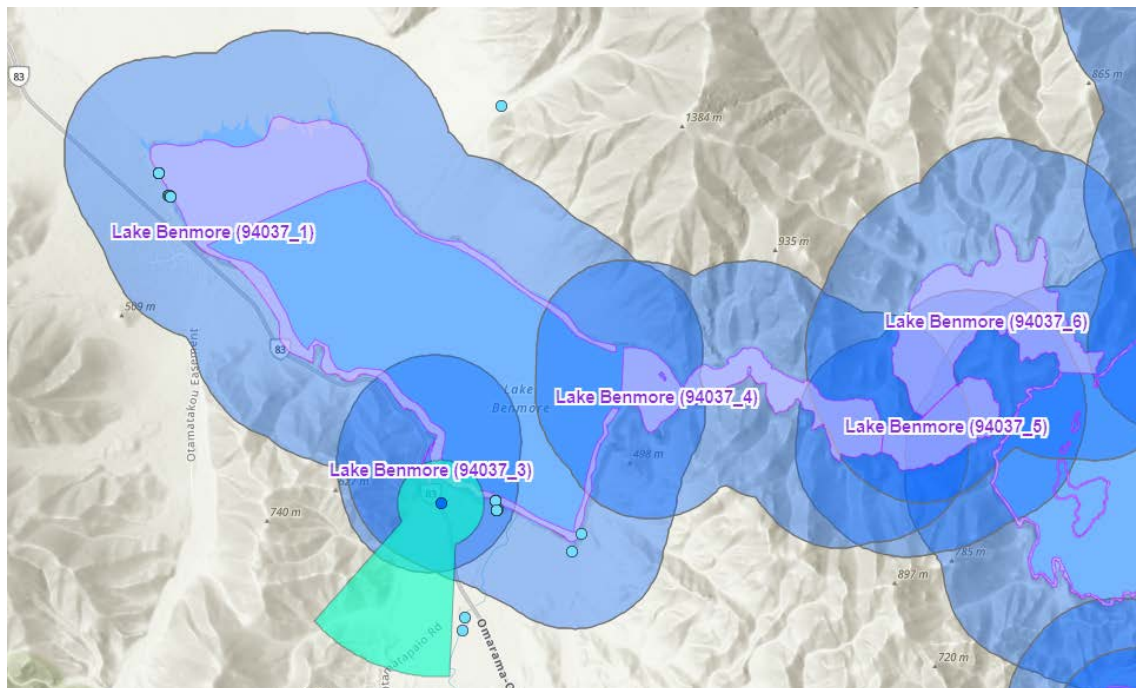


Figure 1. Consented water takes (point data) within the Ahuriri Arm and Neck. Green area is the Community Drinking Water Protection Zone at Sailors Cutting

7.0 Proposed Spray Areas

There is 110ha of spraying proposed for Lake Benmore in May 2023.

Figure 2. Proposed herbicide treatment areas by method.

