

Boffa Miskell



# Operational Spray Plan

Kawarau River Aquatic Weed Management  
Prepared for Land Information New Zealand

1 April 2024

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## 1.0 Discharge Permit

Land Information New Zealand holds a Discharge Permit (No. RM14.111.01), issued by the Otago Regional Council, for the discharge of diquat herbicide and Intracid Rhodamine WT liquid tracer dye throughout waterbodies in Otago for the purpose of aquatic plant pest control. The Discharge Permit expires on 20 May 2049.

## 2.0 Pre-Spray Monitoring and Proposed Control Sites and Dates

Surface-based aquatic weed delimitation survey was carried out on Wednesday 28<sup>th</sup> March 2024. The following sites were surveyed and were deemed fit for spraying:

- Kawarau Falls Bridge to the Shotover River confluence

## 3.0 Herbicide Application

Boat-based aquatic weed spraying is scheduled to begin on **Thursday, 11th April 2024**, and may continue until **Friday, 3rd May 2024**, 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 Kawarau River 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](http://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 Otago Daily Times**

Publication Dates:

- Thursday 8th April 2024
- Monday 8th May 2024

### 4.2 Comprehensive stakeholder email list

Emails are sent to the comprehensive stakeholder list at least one week 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](mailto:biosecurity@boffamiskell.co.nz) if you would like to be added to the mailing list.

## 5.0 Signage

Warning signage is erected at each spray site prior to application and is removed once the 24-hour stand down period for swimming, fishing and taking water has elapsed.



Figure 2. An example warning sign that will be erected at each spray site

## 6.0 Water Takes

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

- RM16.213.01, Central Otago District, Surface Water Take Permit, to take and use surface water from Kawarau River for the purpose of irrigation, communal domestic supply, and wine processing.

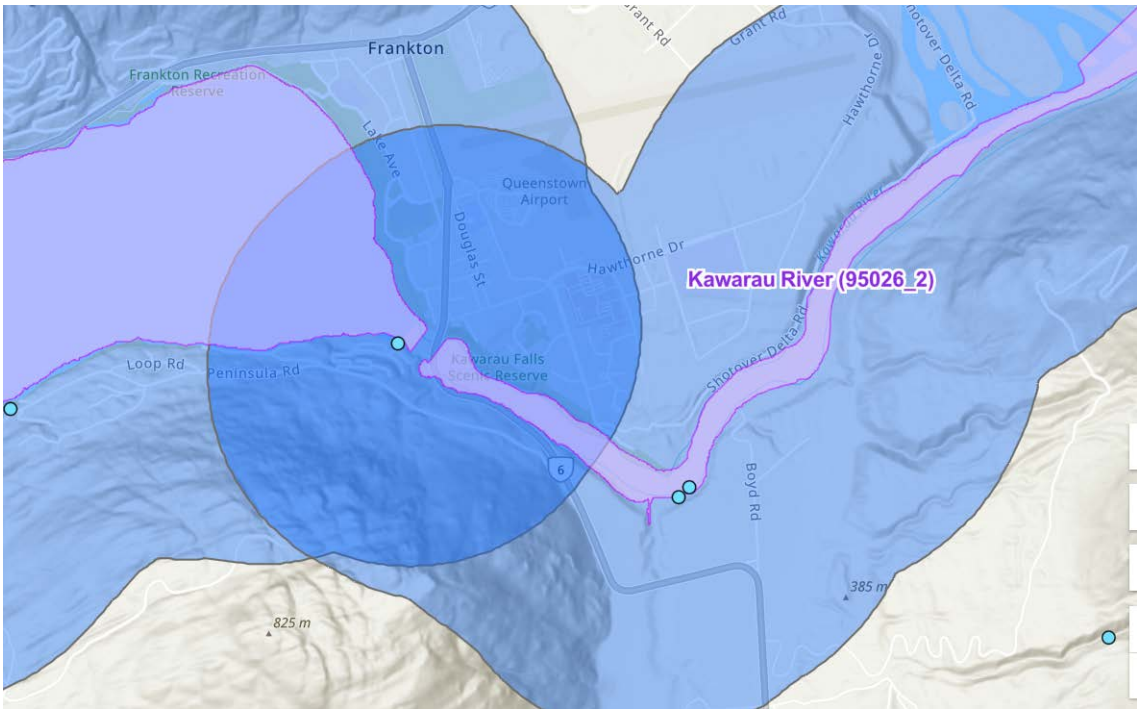
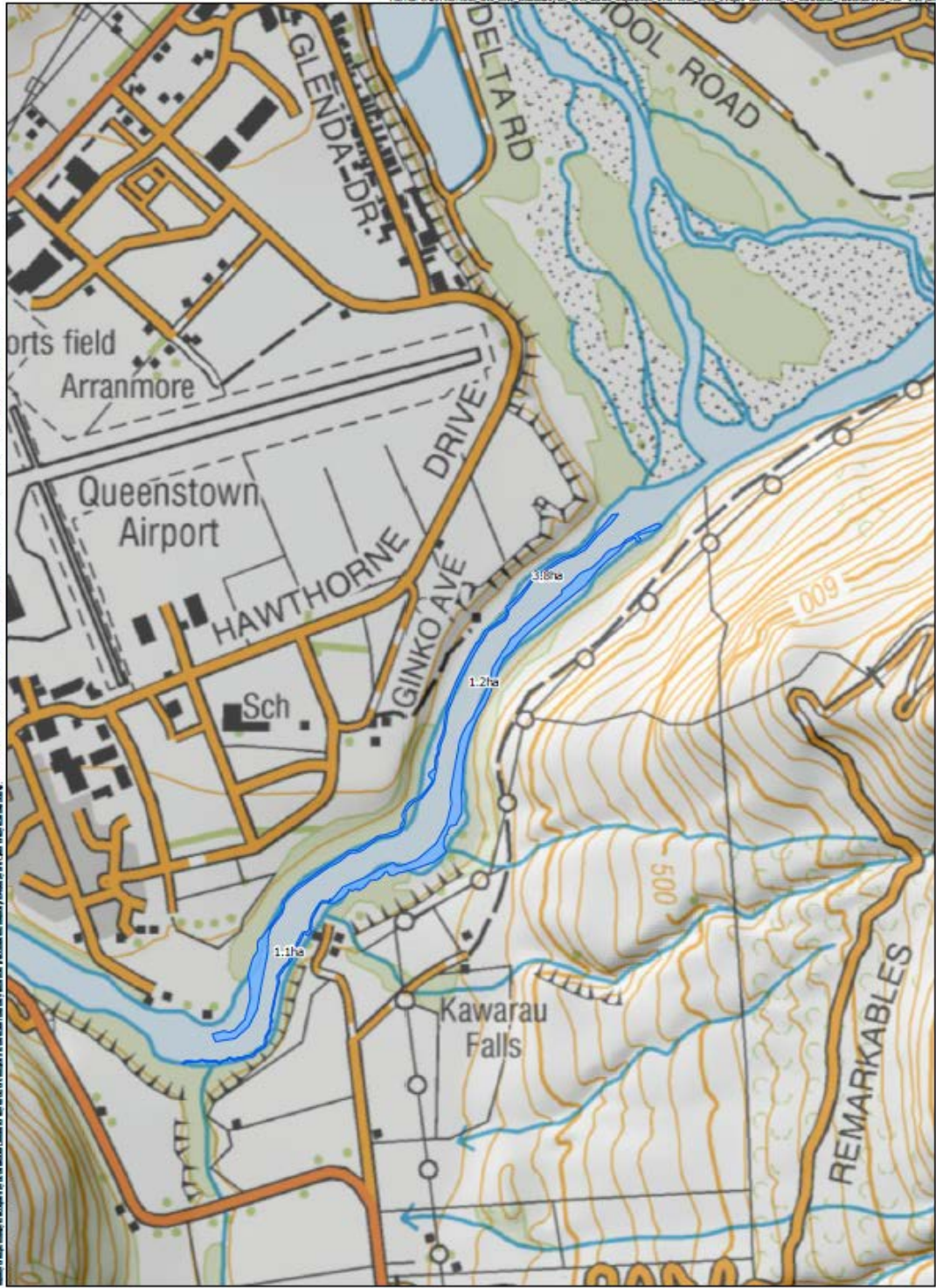


Figure 1. Consented water takes (point data)

## 7.0 Proposed Spray Areas

Figure 3. Proposed herbicide treatment areas



Data for this map was derived from LINZ's 2019/2020 aerial photography. The map is not to be used for any other purpose than the intended purpose. The map is not to be used for any other purpose than the intended purpose. The map is not to be used for any other purpose than the intended purpose.

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 Data Source: Eagle Technology, Land Information New Zealand  
 Projection: NZGD 2000 New Zealand Transverse Mercator

**DRAFT**  
 LEGEND  
 Boat herbicide

**LINZ 2023/24 BIOSECURITY**  
 Kawarau River 2023/24  
 Date: 09 April 2024 | Revision: 0  
 Plan prepared for LINZ by Boffa Miskell Limited  
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Map 1