

CON200: APPLICATION FOR RESOURCE CONSENT

TO TAKE AND USE GROUNDWATER

If you need help in filling out this form please contact our Customer Services staff on (03) 353-9007 or toll free 0800 EC INFO (0800 324 636). They will be able to provide some general assistance.

Send the completed application to: Environment Canterbury, 58 Kilmore Street, P O Box 345, Christchurch 8140.

FOR OFFICE USE ONLY

Receipt number: _____

Charges paid: _____ CRC: _____

Information

1. - Completing all the questions in this form:
 - (a) - may satisfy the requirements of the Resource Management Act 1991 for an application for resource consent. Environment Canterbury will inform you if the application is deficient under RMA Section 88, or if further information is required.
 - (b) - will assist with the prompt processing of your application - any omissions in the form may result in significant delays and costs while the required information is obtained.
2. - It must be noted groundwater applications can be complex, and assessments of the effects may require more depth than that provided for on this form.

Charges

Your application must be accompanied with the deposit charge specified in the "Summary of Resource Consent Charges" or at www.ecan.govt.nz. When your application has been processed, if the actual and reasonable costs incurred by Environment Canterbury exceed the deposit charge, you will be invoiced for the balance. If the cost of processing an application is less than the deposit charge paid, the balance will be refunded. You can require the provision of an estimate of the charge for processing your application. If an application is declined all charges must still be paid.

All accounts are payable by the 20th day of the month following the date of invoice. If the account is not paid within 30 days after the due date, our debt collection agent may charge you a fee equal to 25% of the unpaid portion of the account, but no less than \$25.00. Where the total debt collection costs, legal and other costs arising from the collection of any amount owing exceeds the debt collection fee charged, our debt collection agent is also entitled to recover such additional costs. All Environment Canterbury charges must be met by the applicant. This may include time spent discussing issues with the applicant and any other parties involved in the process.

Part A: Application Details

1. Name and address of applicant(s):

Surname: _____ First names (in full): _____ Mr/Mrs/Ms/ Miss/Dr/Prof.

Surname: _____ First names (in full): _____ Mr/Mrs/Ms/ Miss/Dr/Prof.

OR

Registered Company name and number: _____

Postal address: _____

Postcode: _____

Phone (home): _____ Phone (business): _____

Fax (home): _____ Fax (business): _____

Email: _____ Cellphone: _____

Contact person: _____

You must declare by ticking this box if you are an Environment Canterbury staff member, an Environment Canterbury Commissioner, or a family member of either.



2. Consultant/Agents details (if applicable):

Contact person: _____

Company: _____

Postal address: _____

Postcode: _____

Email: _____

Phone: _____ Fax: _____

During the processing of your application who will be the key contact person for making decisions?
 Applicant Consultant / Agent

Note: Final decision documents will be sent to the applicant.

Who will be the contact person for compliance monitoring matters?
 Applicant Consultant / Agent

3. Names and addresses of the owner and occupier of the site to which this application relates.

(You only need to include this information if it is different from that of the applicant(s))

Owner: _____ Phone: _____

Postal address: _____

Postcode: _____ Fax: _____

Occupier: _____ Phone: _____

Postal address: _____

Postcode: _____ Fax: _____

4. The location of the site to which this application relates:

Site address: _____

Locality: _____

Legal description: _____

Map reference: _____

The legal description can be found on the certificate of title, valuation notice, subdivision plan or rate demand for the site. Please include a copy of one of these with your application.

5. Under which District Council or City Council is this site located?

- | | | | |
|--|---------------------------------------|---|-------------------------------------|
| <input type="checkbox"/> Ashburton DC | <input type="checkbox"/> Kaikoura DC | <input type="checkbox"/> Timaru DC | <input type="checkbox"/> Waitaki DC |
| <input type="checkbox"/> Christchurch CC | <input type="checkbox"/> Mackenzie DC | <input type="checkbox"/> Waimakariri DC | |
| <input type="checkbox"/> Hurunui DC | <input type="checkbox"/> Selwyn DC | <input type="checkbox"/> Waimate DC | |

Have you consulted with the appropriate District or City Council to determine whether you need a consent from them for this activity?

Yes No

If yes, what was their response? _____

If a consent is required, have you applied for it? Yes No

PART B: ASSESSMENT OF EFFECTS

1. INTRODUCTION

You must include an assessment of the effects of your activity on the environment as part of your application. -

Section 88 of the Resource Management Act 1991 requires that each application include an assessment of the actual and potential effects of the activity on the environment. This assessment must be prepared in accordance with the Fourth Schedule of the Resource Management Act. A copy of this schedule is available from Customer Services. -

The assessment of effects will differ for each application depending on the type and scale of the activity. Adequate scoping is one of the best ways of identifying adverse effects. -

Please consult the appropriate sections of the Natural Resource Regional Plan. This can be obtained from our website - www.ecan.govt.nz and our Customer Services Section. -

A pre-application meeting can be arranged to discuss your proposed application. Please contact our Customer Service Section. -

Have you had a pre-application meeting to discuss this application? - Yes on _____ (date) No -

If Yes, what was the name of the person or persons you discussed this with? _____ -

2. DESCRIPTION OF THE PROPOSED ACTIVITY AND/OR USE

Please list the details of the bore(s) or galleries you intend to take water from:

Bore/Gallery number			
Bore diameter (mm)			
Bore depth (m)/Gallery width (m)			
What date was your bore drilled?			
What was the resource consent number authorising the installation of the bore?			
Map reference of the bore (NZMS 260)**			
Maximum pumping rate (L/s)*			
Hours per day pumping at maximum rate			
Daily volume (m ³) (rate x hours x 3.6)			
Length of irrigation return period (days)			
Number of irrigation days during each return period (days)			
Volume (m ³) each return period			

* - You require a Step Draw Down Test (SDDT) to validate this. (ref: Aquifer Test Guidelines (2nd Edition) R08/25.)

** - Map reference should be accurate to no less than ten metres (4 digits) and field validated using at minimum a handheld GPS.

3. LEGAL AND PLANNING MATTERS

- Please state under which rules of the Regional Plan and/or Proposed Regional Plan you require consent:

Note: See associated notes Section 3 for details of the Transitional Regional Plan (TRP) General Authorisation rules and the proposed Natural Resources Regional Plan (PNRRP) rules. Alternatively, please contact Customer Services who will be able to help you answer this question.

4. CONSULTATION

Have you provided any written approvals from irrigators within 2000 metres who have consent to take and use groundwater and/or from domestic groundwater users? Please refer to section 6 (a) Yes No

If yes, please attach to this application and provide a map that indicates the properties and bores of people who have provided their written approval to your proposal. Please label this attachment (1).

Note: Written approval forms can be obtained from our Customer Services Section and from our website www.ecan.govt.nz.

5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

Please provide a map that accurately shows the following features within 2000 metres of your bore(s):

- The correct location of your bore(s) -
- Neighbouring bore locations (as best you can determine) -
- Surface water bodies, (whether continuously flowing or ephemeral), including springs, water races, drains, wetlands and lakes. -
- Areas of irrigation authorised by other consents you hold (clearly marked). -
- Your proposed area of irrigation (clearly marked). -

Please sign this map to state that the locations of these features are correct and enclose it with this form. Please label this attachment (2). Please clearly show on the map any bores which are not in the correct location.

Note: The application may not be receipted if the signed verified map is not enclosed. If resource consent is granted on the basis of incorrect information, it may be reviewed at your cost or may even be cancelled if deliberately misleading information is provided. Customer Services may be able to help you supply a map, however Environment Canterbury cannot guarantee its completeness or appropriateness for your purpose and therefore no liability is accepted for any loss or damage arising out of the use of this information. If the information is relied on in support of a resource consent application, it should be verified independently.

6. ASSESSMENT OF ACTUAL AND POTENTIAL EFFECTS

The more information you provide in this section, with evidence where possible, the quicker the processing of your application will be. Please attempt to answer each question.

(a) Adverse effect of take on surrounding groundwater users

The taking of groundwater creates a drawdown cone or “interference effect” that extends laterally from the pumped bore(s) and may result in a lowering of groundwater levels in neighbouring bores. Such lowering may adversely affect existing users whose access to water is protected by Environment Canterbury Policy unless they provide signed written approvals.

- - Will there be an effect from your proposed take on neighbouring bores?

Yes

If yes, have you provided the written approval of all groundwater users (bore owners) within 2000m of your bore(s)?

Yes No -

No -

If no, you will need to explain why. This may be in the form of any or all of the following: -

- (i) a technical assessment (please attach);
- (ii) consultation with other water users (please provide signed written approvals).

Please refer to Section 6 in the associated notes.

(b) Cumulative effect of take on other groundwater users

The cumulative effect of the proposed abstraction in combination with existing abstractions may cause an overall lowering of water levels in an aquifer (and the consequent change in the aquifer characteristics) and may prevent existing users from taking their authorised amount.

- - What groundwater allocation zone is your proposed take located within?
- What is the current allocation within this groundwater allocation zone?
- What annual volume do you propose to abstract and how will this affect other users within the same allocation block? (See 6(c)(ii)).
- What effect will your take, in combination with existing takes, have on groundwater levels in the area, over the duration of the consent you wish to apply for?
- - Are you aware of a general lowering of water levels over time within your area?

Please support your comments, preferably by attaching a relevant long-term water level plot or referring to published investigations carried out in the area. A consultant may be able to assist you with this.

(c) Effects of inefficient water use

(i) What will be the use of the water taken:

- Stockwater Irrigation Dairy Shed (wash down or cooling) Domestic
 Amenity/aesthetic value Other: _____

If water is to be taken for stockwater, please list stock type and numbers of each stock. Please refer Section 6.1 in the associated notes.

Stock type	Numbers	Litres/head/day	Total litres per day	Number of days water taken per year	Annual Requirement (m ³)
Sheep and beef					
Total demand					

What is the maximum daily volume (L/day)? _____

Note: Total L/day can be multiplied by 1.2 to allow for peak demand and some potential loss from the system.

If you will be irrigating, what do you wish to irrigate?

- Crop (please specify): _____
 Pasture (please specify e.g. dairy): _____
 Other (please specify): _____

How will you irrigate?

- Spray – K line Spray – rotorainer Spray – centre pivot
 Spray – lateral Spray – gun Border dyke
 Other (please specify): _____

For irrigation use, please complete the boxes below to determine whether the amount of water you wish to take is appropriate for the intended use.

• What are the types of soil that you will be irrigating? _____

• What is the average water holding capacity of the soil(s)? (mm) **A**

• What average daily evapotranspiration rate will you be allowing for?* (mm/day) - **B**

* The average rate over the summer, measured at Lincoln, is ~4.5 mm/day. Actual rates are published in local newspapers over summer.

Average application rate (mm/day):

(Area irrigated (hectares) / pump rate (litres/second) X max pumping (hours/day) X days irrigated per return period X 8.64)

Area irrigated (hectares) / Pump rate (litres/second) = **C**

C x Max pumping (hours/day) x Days irrigated per return period x **8.64** = **D**
Average application rate (mm/day)

Gross application rate (mm/return period):

D x Length of return period (days) = **E** Gross application rate (mm/return period)

If the average application rate [D] is more than the average daily evapotranspiration rate allowed for in [B], or less than 4.0 mm/day, please explain why:

If the gross application rate [E] exceeds approximately half the average water holding capacity of the soil [A], please indicate how you will ensure that water is not lost to groundwater. If you are applying more water than the soil can hold, you may need to reduce the rate of application or decrease the return period.

Please describe how you determine when to water your soil and how you determine when application depth is sufficient:

(ii) Allocative efficiency

• Do you propose to take all practicable steps to:

Ensure that the volume of water used for irrigation does not exceed that required for the soil to reach field capacity? -

Yes - No -

Avoid leakage from pipes and structures? - Yes No -

Avoid the use of water onto non-productive land such as impermeable surfaces and river or stream riparian strips? -

Yes - No

Note: Our current best practice method for calculating annual water requirements is our Annual Volume calculator on our website www.ecan.govt.nz. You will need: Area irrigated, Soil Profile Available Water (PAW) (mm), Effective irrigation season rainfall (mm), land use (arable or intensive pasture).

• What is your proposed Annual Volume? _____ (please show calculations as an attachment)

(d) Adverse effect of take on other users from seawater intrusion

Environment Canterbury has evidence of saltwater being drawn into aquifers in parts of the region. If your bore is close to the coast, you should check whether there is likely to be any connection between your bore and the sea.

- Is your bore within 2000 metres of the coastline? Yes No -

If no, saltwater intrusion is unlikely to occur. -

If yes, a technical assessment may be required unless you can provide evidence that it will not be a concern. -

(e) Adverse effect from cross-connection on groundwater quality

This occurs when contaminants (i.e. effluent or fertiliser) are injected into irrigation systems and water flows into the bore when pumping stops. It can also occur when water is taken from more than one source (water bearing layer) and water from a contaminated source is able to flow into a less contaminated source. It can result in groundwater becoming unsuitable as a source of potable supply.

- Do you intend to distribute contaminants through your irrigation system? Yes No

If yes, do you intend to install a reduced pressure zone backflow preventer valve prior to distribution?

Yes - Please note, you will need to provide a test certificate one month after installation and annually thereafter.

No - How can you ensure contaminants will not enter groundwater? _____

- What depths does your bore screen? _____

(f) Adverse effect of take on surface water flows

Note: A consultant may be required to assist you with a technical assessment.

There are numerous adverse effects that may arise from the taking of groundwater linked to a surface waterbody. In summary, these include effects on: springs, existing authorised users; aquatic ecosystems; amenity and recreational values; and spiritual and cultural values.

- - Are there any surface waterways (e.g., rivers, streams, drains, stockwater races, or springs) within 2000m of your bore? -

Yes - No

If yes, please provide the name of the waterway and the precise distance from the bore. Please ensure this is clearly marked on your map that you have provided as attachment (2).

Name of Waterway			
Distance from Bore			

- Will pumping from your bore reduce the flow in nearby waterways? Yes No

If yes, please advise what this effect is (you should quantify this): _____

How did you determine this? _____

If no, you will need to explain why. This may be in the form of any or all of the following:

- (i) technical assessment (please attach);
- (ii) local knowledge and experience (please provide details);
- (iii) consultation with other water users.

If there may be an effect on nearby waterways, what mitigation measures do you propose? This may include minimum flow restrictions. Consultation with:

- Other surface water or hydraulically connected groundwater users
- The Department of Conservation
- Fish and Game New Zealand and
- Your local Runanga

may help you to identify the effect and any mitigation. Please attach copies of any correspondence or use the written approval form.

(g) Adverse effect of use on water quality

Irrigation of intensively farmed land can result in increased concentrations of contaminants, of particular concern is nitrate-nitrogen being washed through into the underlying groundwater. Raised contaminant concentrations can then cause health problems for down-gradient water users and can cause adverse effects on ecology of streams replenished by groundwater.

Some land uses are more likely to cause adverse effects without sufficient mitigation. Currently, or within the duration of this proposed consent will you be:

- (a) **Irrigating:** Pasture for grazing non-intensive stock
 Pasture for grazing intensive sock (e.g. dairying, beef & lamb fattening operations)
 Feed crop for on-site stock
 Other crop (please specify) _____

(b) **Intensifying your current land use** (e.g. by changing stock type and/or increasing your stock numbers)

- Yes No

If yes to (b), a technical assessment of the effects of land use intensification on water quality is required (e.g. a nitrate-nitrogen assessment), or reasoning as to why this assessment is not required.

(h) Adverse effect of take and use on Tangata Whenua values

Chapter 6 Policy 3 of the Environment Canterbury’s Regional Policy Statement, dealing with the provision for relationship of tangata whenua with resources, states: “Specific aspects of the relationship of tangata whenua, their culture and their traditions with their ancestral lands, water, sites, wāhi tapu and other taonga should be recognised and provided for through resource management and planning including provisions in plans, decisions on resource consents and monitoring the state of the environment.”.

- - Will there be any effect on tangata whenua values (traditional values, mahinga kai of natural resources or mauri) from your - proposed take of groundwater? Yes No

If no, please explain why you consider there will be no adverse effects: _____

If yes, please describe the effect:

How have you determined this? _____

- - What, if any, measures do you propose to mitigate the effect you identify? _____

- - What runanga is your proposed activity in? _____

- Have you consulted with your local runanga (contact details can be obtained from Customer Services)? Yes No

Please attach any correspondence or written approval.

7. ASSESSMENT CHECKLIST

Have you:

- set out the rate and volume (including the annual volume) of the take sought? -
 - provided a map showing properties from which written approvals have been provided in accordance with Section 4? Attachment (1) -
 - provided an accurate and verified map in accordance with Section 5? Attachment (2) -
 - considered all effects and answered all questions in Section 6? -
 - attached your detailed Assessment of Actual and Potential effects (AEE)? -
 - provided technical assessments to support your AEE? -
 - provided (i) reasoning to why you are exempt from requiring a step test/aquifer test -
 (ii) step-test
 (iii) aquifer-test
- and -
- Can you comply with all the standard conditions (outlined in the Associated Notes)? -

PART C: OTHER INFORMATION

1. PREVIOUS CONSENTS

- (a) - Have you held any previous consents at this site for this activity or any related activities? Yes No
 If yes, please supply the consent reference number(s) or consent holder's name (if different from current applicant's name).
 CRC _____ Name: _____
- (b) - If your application is to replace an existing consent which has not yet expired, do you agree to your application being processed outside the timeframes set out in the Resource Management Act (Section 37A approval) but before the expiry of your existing consent? Yes No N/A
Note: If your existing consent is not due to expire within six months you can continue the activity until this application is decided and any appeals have been resolved.
- (c) - If your existing consent is due to expire in less than six months, but more than three months, do you wish to continue with the activity after the expiry date, if this application has not been decided? Yes No N/A
Note: Environment Canterbury has discretion to allow you to continue to operate until a decision on this application has been made. Environment Canterbury will confirm this in writing.

2. NOTIFICATION

If your assessment of effects has shown that adverse effects on the environment are likely to be more than minor, you may wish to request that your application be publicly notified in order to avoid possible delays in the processing of your application. Notification is likely to incur additional costs.

The final decision to notify or not notify an application will still be made by Environment Canterbury.

Please note that an application cannot be notified unless there is sufficient information for the notice that makes it clear what is being applied for, and how it might affect the environment (including people).

I request that my application is publicly notified. Yes No

3. DURATION REQUESTED

Please specify the duration sought for your consent(s): _____ years _____ months.
Note: The maximum duration allowed under the Act is 35 years.

4. START DATE

Resource consents lapse five years after their commencement date unless the consent has been given effect to or an application is made to Environment Canterbury to extend this period.

When do you propose to start the activity? _____ (date/month/year)

5. ERRORS AND OMISSIONS

When you receive your resource consent documents please check that the details are correct. You have a 15 working day period after the decision is made to allow you to object or advise of errors or omissions without cost.

ADDITIONAL NOTES TO APPLICANTS

1. - Your application must be publicly notified unless Environment Canterbury is satisfied that the adverse effects on the environment will be minor and written approval has been obtained from every person Environment Canterbury considers may be adversely affected by the granting of your application.

Environment Canterbury must publicly notify your application if it is decided that the adverse effects on the environment are more than minor; or you request public notification; or a rule or National Environment Standard requires public notification. If Environment Canterbury does not publicly notify your application it must then decide if there are any affected persons, or order holders, in relation to the activity. Your application will be limited notified if effects on the person or persons are minor or more than minor.

2. - Section 128 of the Resource Management Act 1991 sets out the circumstances in which Environment Canterbury may review the conditions of a resource consent. Under Section 128(c) Environment Canterbury may undertake a review at any time if the application contained any inaccuracies which materially influenced the decision made.
3. - The information you provide with your application is official information. It will be used to process your application and, together with other official information, assist in the management of the region's natural and physical resources. Access to information held by Environment Canterbury is administered in accordance with the Local Government Official Information and Meetings Act 1987, and Privacy Act, 1993. Your information may be disclosed in accordance with the terms of these Acts. Public access is also provided to consent information via Environment Canterbury's website. It is therefore important you advise Environment Canterbury if your application includes trade secrets and/or commercially sensitive material.

PART D: SIGNATURE AND DATE

I have read all of the information on this application form and I understand that I am liable to pay all actual and reasonable charges relating to the processing of this application.

I also understand that if the application is granted, I will be liable to pay all actual and reasonable charges related to compliance monitoring of that consent.

Signature of **consultant**

Date

Full name of person signing – please print

Signature of **applicant**

Date

Full name of person signing – please print

Note: Environment Canterbury must have written authorisation. Both the consultant (if used) and the applicant must sign this section.

CHECKLIST

Have you remembered to:

- Complete all the details set out in **Part A** of this application form. -
- Include an assessment of effects of the activity on the environment, set out in **Part B** of this application form and attach further - details (e.g. detailed report). -
- Enclose attachment (1) and attachment (2).
- Include a copy of the **certificate of title**, rates demand, subdivision plan or valuation notice for the site your application relates - to. -
- Sign and date Part D** of this application form. -
- Include the **appropriate deposit** charge as set out in the “Summary of Resource Consent charges”. -
- Consider consulting local Runanga if your proposed activity occurs: -
 - (a) Within a statutory acknowledgement area?
 - (b) Within a silent file area?
 - (c) Close to a site of cultural significance? Or
 - (d) Otherwise affects a site of cultural significance?