

CON200: APPLICATION FOR RESOURCE CONSENT

TO TAKE AND USE GROUNDWATER
(For takes of less than 600m³ per day)

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

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 further information is required.
- (b) will assist with the prompt processing of you're application - any omissions in the form may result in significant delays and costs while the required information is obtained.

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 ECan staff member, an ECan Councillor, 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 contact person for making decisions? Applicant Consultant / Agent
Note: All correspondence during the consent investigation process will be directed to this contact person, unless instructed otherwise. 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 to 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. Consultation is one of the best ways of identifying adverse effects.

For further assistance in preparing this assessment, Environment Canterbury has a fact sheet available entitled "Preparation of Assessment of Effects on the Environment."

2. DESCRIPTION OF THE PROPOSED ACTIVITY

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

Bore number			
Bore diameter (mm)	mm	mm	mm
Bore depth (m)	m	m	m
What date was your bore drilled?			
What was the bore permit number for the bore?			
Has bore been drilled at the map reference specified in the bore permit?	<input type="checkbox"/> Yes <input type="checkbox"/> No*	<input type="checkbox"/> Yes <input type="checkbox"/> No*	<input type="checkbox"/> Yes <input type="checkbox"/> No*
Correct map reference of the bore (NZMS 260)**			
Maximum pumping rate (L/s)	L/s	L/s	L/s
Hours per day pumping at maximum rate			
Daily volume (m ³) (rate x hours x 3.6)	m ³	m ³	m ³
Length of irrigation return period (days)	days	days	days
No. of days irrigating during each return period (days)	days	days	days
Volume (m ³) each return period	m ³	m ³	m ³

* If no, please ensure the correct map reference is recorded in the next row of the above table.

** Map reference should be accurate within ten metres.

3. LEGAL AND PLANNING MATTERS

- Please state under which rule you require consent: _____

Note: See additional notes section of this form for General Authorisation rules and proposed Natural Resources Regional Plan rules for details. Alternatively, please contact Customer Services who will be able to help you answer this question.

4. CONSULTATION

Have you provided any written approvals from neighbouring irrigators within 1500 metres who have consent to take and use groundwater 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 of people who have provided their written approval to your proposal. Please label this Attachment 1.

Note: A written approval form is included at the back of this form.

5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

Please provide a map that accurately shows the following features within 1500 metres of your bore(s):

- The correct location of your bore(s)
- Neighbouring bore locations (as best you can determine)
- Surface waterways (whether continuously flowing or ephemeral) including springs and water races
- 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 processing of the application may be delayed 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 No

If yes, have you obtained the written approval of all groundwater users (bore owners) within 1,500m of your bore(s)?

- Yes 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) local knowledge and experience (please provide details);
- (iii) consultation with other water users (please provide details of consultation).

Please note that if you do not provide written approvals, you may be asked to provide a technical assessment of whether any bores within 1,500m are adversely affected by your proposed take. Please refer to section 6.1 in the additional notes. The requirement for a technical assessment will be determined when an Investigating Officer audits your application and may require specialist expertise. A list of groundwater consultants is available from Environment Canterbury Customer Services.

- Do you propose to restrict your take to the maximum rate and volume applied for? Yes No
- Do you propose to install a straight length of pipe or a water meter to allow measurement of the rate of take?
 Yes No
- Do you propose to provide measurement information of your proposed abstraction if requested by Environment Canterbury?
 Yes No

Note: a full list of standard conditions is provided in Section 7 of the additional 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 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. Environment Canterbury Customer Services or a consultant may be able to assist you with this.

(c) Effects of inefficient water use

What will be the use of the water taken:

- Stockwater Irrigation
- Amenity/aesthetic value Other: _____

If water is to be taken for stockwater, please list stock type and numbers of each stock. Please refer section 6.3 in the additional notes.

Land use	Stock type	Numbers	Litres/head/day	Total L/day	Total x1.2 L/day
Sheep and beef					

Total demand					
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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 main types of soil that you will be irrigating? _____
- How deep are your soil(s) on average? _____ (mm)
- What is the average water holding capacity of the soil(s)? (mm) **A**
- What 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):

Pump rate (litres/second)		x	Max pumping (hours/day)		x	Days irrigated per return period		x	8.64	=		C
area irrigated (hectares)			24		x	length of return period (days)					=	average application rate (mm/day)

Gross application rate (mm/return period):

C x Length of return period = **D** (mm/return period)

If the average application rate [C] is more than the average daily evapotranspiration rate allowed for in [B], please explain why:

If the gross application rate [D] 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 increase the return period.

- Will you limit your area of irrigation to the area you have applied for? Yes No
Please describe how you determine when to water your soil and how you determine when application depth is sufficient:

- 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

(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. Again, Customer Services may be able to help you obtain this information.

• Is your bore within 1km 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. The requirement for a technical assessment will be determined when an Investigating Officer audits your application.

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

This occurs when fertiliser is 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 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 fertiliser or effluent through your irrigation system? Yes No

If yes, do you intend to install a reduced pressure zone backflow preventer valve? Please note, you will need to provide a test certificate one month after installation and annually thereafter. Yes No

If no, how can you ensure fertiliser will not enter groundwater? _____

(f) Adverse effect of take on surface water flows

Note: The leaflet 'Quantifying Stream Depletion Effects' (E00/1), available from Customer Services, may assist you in analysing the effect on nearby waterways.

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 1,500m 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 may wish to quantify it): _____

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 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 provided. If you would like more information on minimum flow restrictions phone the Council's Customer Services Section on either: 03 353 9007 or 0800 EC INFO (0800 32 4636)

(g) Adverse effect of use on water quality

Irrigation of intensively farmed land can result in increased concentrations of contaminants, particularly nitrate-nitrogen and faecal coliforms, 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.

- Do you intend to either:

(a) continue the existing landuse Yes No

OR

(b) intensify the landuse by changing stock and increasing numbers Yes No

If yes to (a), do you propose to limit your type of grazing to the use of land described in section 6.3 of this application form?

Yes No

If yes to (b) a technical assessment of the effects of landuse intensification on water quality may be required.

The requirement for a technical assessment will be determined when an Investigating Officer audits your application.

(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, wahi 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 traditional values, mauri or mahinga kai of natural resources from your proposed take of groundwater? Yes No

If no, please explain why and how you can be sure the adverse effect will be minor: _____

If yes, please describe the effect: _____

How have you determined this? _____

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

- 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. CHECKLIST

- Have you set out the rate and volume of take sought?
- Have you provided a map showing properties where written approval provided in accordance with section 4? (Attachment 1)
- Have you provided an accurate and verified map in accordance with section 5? (Attachment 2)
- Have you applied for a bore permit?
- Have you provided all necessary written approvals?
- Have you considered all effects and answered all questions in section 6?
- Can you comply with all the standard conditions (outlined in 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 37(5A) approval) but before the expiry of your existing consent? Yes No N/A

2. NOTIFICATION

If your assessment of effects has shown that adverse effects on the environment are likely to be more than minor and/or there are people who may be adversely affected from whom you are unable to obtain written approval, you may wish to request that your application be publicly notified in order to avoid possible delays in the processing of your application.

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 notified. (check box)

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 notified to allow you to object or advise of errors or omissions without cost.

ADDITIONAL NOTES TO APPLICANTS

- 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 (unless Environment Canterbury considers it unreasonable to require the obtaining of every such approval). Enclosed is a form "Written Approval of Persons Likely to be Adversely Affected" to help you obtain such approvals.
- 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
- Enclose a **site plan**.
- 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 C of this application form.
- Include the **appropriate deposit** charge as set out in the "Summary of Resource Consent charges".
- Consult 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?

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