

Application for Resource Consent: Groundwater Take

Form B: Activity Information and Assessment Form

A complete Administration Form (Form A) MUST accompany this Activity Information and Assessment Form (Form B) when lodging your application. The purpose of this form is to provide the applicant with guidance on information that is required under the

Resource Management Act 1991. These forms are to act as a guide only, and Horizons Regional Council reserves the right to request additional information.

APPLICANT NAME

(Refer to Form A. This is the name/s that the consent will be issued to)

1 APPLICATION PURPOSE

What is the purpose of this application (select one)

New consent

Renewal of consent

Consent number Expiry date.....

Consent term sought

(Max. 35 years)

Note: Resource consents are typically aligned with the relevant common catchment expiry dates in Policy 12-5 of the One Plan.

2 LOCATION AND SITE DETAILS

Location of the proposed abstraction

Address

Legal description

Please provide details of the bore/s from which you request to take water.

If you do not have an existing bore, you will need to apply for a consent to construct a bore before you apply to take groundwater. Please refer to the application form to drill, construct or alter a bore.

Bore 1 E..... N..... Bore number

Bore 2 E..... N..... Bore number

According to Schedule D of the One Plan, what Groundwater Management Zone is the proposed bore/s in?

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You can access this information via <http://www.horizons.govt.nz/publications-feedback/one-plan/part-3-annexes/schedules>
 A detailed site map is required with this application, please see section 10 - additional information required

Please provide the following information

	Bore depth (m)	Screen depth (m)	Diameter (mm)	Pump type (submersible/surface)	Pump depth (m)	Pump capacity (L/s)
Bore 1 #						
Bore 2 #						

Is the bore flowing (artesian)? Yes No

If 'No', how deep is the static water level? m

List three bores that are not on your property, nearest to the proposed take, and mark them on the attached site plan for attachment. If you require assistance for this information, please email groundwater@horizons.govt.nz

# On map	Owner	Distance (m)	Pump Depth (m)	Bore Depth (m)	Pump Type (submersible/surface)	Used For
1
2
2

3 DESCRIPTION OF PROPOSED ACTIVITY

When was the well drilled?

Who drilled the well?

What will be the maximum rate at which water is taken?

Maximum rate of take litres per second

Maximum daily volume cubic metres per day

Maximum annual volume (1 July – 30 June) cubic metres per year

Please justify the above amount of ground water requested.

E.g. is this based on previous metered use, or an estimate? If it is estimated, please provide the calculations.

What is the proposed use of the water abstracted?

- Irrigation (please complete Table 1 below)
- Domestic water supply (please complete Table 2 below)
- Stockwater/dairyshed washdown (please complete Table 3 below)
- Municipal supply
- Industrial (please complete Table 4 below)
- Other (please complete Table 4 below)

TABLE 1 IRRIGATION

What is the area/s you will be irrigating?

- Crop(s) ha TOTAL Crop type
- ha/day
- Pasture..... ha TOTAL
- ha/day
- Horticulture..... ha Horticulture type.....
- ha/day
- Other ha Please specify
- ha/day

Please ensure these areas are clearly marked on the site map required under Section 4.

Target application rate mm/day

Explain how you have determined that the volume requested is reasonable for the needs of your crop/horticulture. *(E.g. comment on any calculations or experience)* If based on an efficiency assessment by an industry professional, please provide documentation of this.

Irrigator type

Have you changed or upgraded your irrigation system if you already hold a consent? Yes No

If 'Yes', please specify how.

Please describe the soil type and characteristics for the area to be irrigated.

TABLE 2 DOMESTIC WATER SUPPLY

Please select the type of facility?

- Private dwelling/s
- Number of dwellings Maximum occupancy
- Commercial/rural (E.g. dairyshed, woolshed etc.)
- Description Occupancy
- School
- Maximum occupancy

- Camping Ground
Maximum occupancy including staff
- Marae
Maximum number of day visitors Overnight visitors
- Other
Please describe and include maximum occupancy

TABLE 3 STOCKWATER USAGE (Please fill out the following table)

Animal type/use	Number of individuals	Maximum reasonable use volume (L/individual/day)	Total water allowance (L/day)	Total water allowance (m3/day)
Dairy cow drinking water only		70		
Dairy shed washdown (per cow)		70		
Dairy cow (dry or replacement stock)		45		
Calves		30		
Beef cattle (mature cattle, herd replacement stock and bulls)		55		
Sheep		4.5		
Horses (working)		70		
Horses (grazing)		50		
Deer (hinds and stags - all ages)		12		
Goats (dairy - in milk)		10		
Goats (dry)		7		
Pigs (mature)		18		
Pigs (brood sow)		35		
Poultry (layer and breeder hens)		0.45		
Poultry (non-laying hens and chickens)		0.29		
Turkeys		0.1		
Domestic (per person)		300		
			TOTAL	

The water use requirements in this calculator are maximum likely requirements (or peak daily demand) and are based on the recommendations of Stewart & Rout (2007). Volumes calculated within these guidelines are considered to meet Horizons "reasonable use" criteria, although water use efficiency and best practice, particularly in relation to dairy shed washdown water, is expected and encouraged.

If you consider you are using less than those figures in the above table, please provide the calculations below.

TABLE 4 INDUSTRIAL USE/OTHER

What type of Industry/other use will be using the water and how will the water be used?

Do you take water from any other sources on your property for other purposes?

WATER MEASURING AND REPORTING INFORMATION

Is there a water meter installed on the pump? Yes No

If 'No', when do you plan to install a water meter?

Is there a backflow preventer installed? Yes No

Is there telemetry installed? Yes No

If there is a water meter, please answer questions below.

What is the flow meter type? Magflow Ultrasonic Mechanical Other

What is the flow meter serial number and brand type?

Is the meter (please select one) In situ On a mobile unit

Has the water meter been verified? Yes No

If 'Yes', who verified the water meter and when?

Please attach a copy of the verification certificate.

4 ASSESSMENT OF ENVIRONMENTAL EFFECTS

For your application to be considered, an assessment of effects must be included. Please answer all questions below. Additional information may need to be provided and/or assistance needed from a groundwater specialist depending on the scale and significance of your proposal.

Pursuant to Schedule 4 of the Resource Management Act, 1991, there are a number of matters that must be addressed by an assessment of environmental effects. The extent of detail required should be relative to the scale and significance of the potential adverse effects the activity may have on the receiving environment.

Please ensure that you cover the potential effect of the take on the overall water resource, any neighbouring surface water bodies and neighbouring bores.

Do you have water quality results? Yes No

If 'Yes', please provide these with the application

Has an aquifer/pumping test been carried out on your bore? Yes No

If 'Yes', please provide a copy of the aquifer test with the application

Will the take and use of groundwater have any effects on the following

Aquifer storage volumes Yes No

Existing bore or well yields Yes No

River and stream flows, including minimum flows and allocation levels Yes No

Wetland and lake water levels Yes No

Groundwater quality Yes No

For those answered 'No' above, please describe why there will be no effects.

For those answered 'Yes', please describe how these effects may occur.

5 GOOD MANAGEMENT PRACTICES AND MITIGATION MEASURES

Please describe any measures you are proposing to minimise wastage of water and maximise its efficient use.

E.g. soil moisture monitoring, efficiency measures, control systems, telemetry, leak detection.

6 CONSIDERATION OF ALTERNATIVES

Have you considered the option of using any alternative sources of water?

- Yes (specify)
- No

Explain why you have decided to take from the proposed water resource rather than any of the alternatives (if any).

7 CONSULTATION/AFFECTED PARTIES

Please include evidence of any consultation undertaken for this application. This may include (but not be limited to) consultation with adjoining landowners, other consent holders in the immediate area, iwi, government departments/ministries (e.g. DoC), territorial authorities and recreational associations (e.g. Fish and Game New Zealand). Please ensure that you have considered any Statutory Acknowledgements in the Horizons Region. For more information visit <http://www.horizons.govt.nz/about-our-region-and-council/iwi-and-hapu/statutory-acknowledgements>.

If you are in doubt about who you should be talking to call a member of the consents team on 0508 800 800.

Name

Address

Affected party approval form attached

Name

Address

Affected party approval form attached

Name

Address

Affected party approval form attached

Name

Address

Affected party approval form attached

NATIONAL ENVIRONMENTAL STANDARDS FOR SOURCES OF DRINKING WATER (NES-DW)

For a complete copy of the NES-DW visit <http://www.legislation.govt.nz/regulation/public/2007/0396/latest/DLM1106901.html>

Are there any public water supplies that could be affected by your proposal? Yes No

An assessment under the NES-DW will need to identify any sources of human drinking water that supply more than 25 people who might be affected by the activity. Horizons Regional Council holds a list of such water supplies within its region and will be able to provide assistance when identifying water supplies within the vicinity of the activity.

Discussion with the water supply operator may also be beneficial in determining whether the supply could be affected and what measures can be taken to ensure the quality of the water supply is maintained.

RESOURCE MANAGEMENT (MEASUREMENT AND REPORTING OF WATER TAKES) REGULATIONS 2010

Does your proposed activity meet all the requirements of the above regulations? Yes No

Note: Standard consent conditions include all the requirements.

If 'No', please provide reasons.

Please state any other NES that you consider may be relevant to your activity and provide an assessment against that NES.

RELEVANT STATUTORY PROVISIONS

The Resource Management Act 1991 requires this application to include an assessment of the proposed activity against the One Plan. Answering the following questions will satisfy this requirement. If you are unable to answer the questions below, or you believe your proposal is inconsistent with the relevant policies and documents discussed, it is recommended you seek professional planning assistance to help you with your application. For a complete copy of the One Plan visit <http://www.horizons.govt.nz/publications-feedback/one-plan>.

REGIONAL POLICY ASSESSMENT

The objectives and policies of Chapter 5 (Water) are relevant to this application.

Is the activity consistent with the relevant provisions of the Regional Policy Statement? Yes No

Please provide reasons for your answer above

Please list any other relevant objectives and/or policies of the Regional Policy Statement and provide an assessment of the activity against those objectives and/or policies.

REGIONAL PLAN ASSESSMENT

Objective 16-1 and Policy 16-1, 16-5, 16-6 and 16-8 of Chapter 16 of the Regional Plan are relevant to this application.

Is the activity consistent with the relevant provisions of the Regional Plan? Yes No

Please provide reasons for your answer above

If there are other sections of the One Plan or any national planning document (e.g. NZ Coastal Policy Statement) that you consider are relevant, please provide an assessment of the activity against those relevant objectives/policies of the One Plan and/or national document.

10 **ADDITIONAL INFORMATION REQUIRED WITH THIS FORM**

- Administration Form (Form A)
- A SITE plan to scale showing:
 - The location of the bore/s
 - The total property boundary
 - Existing or proposed flowmeter location
 - Where the water is to be used i.e. irrigation map, industrial use etc.
It may be useful to provide a schematic of the system from bore to use of water
 - Distances to any discharge activities
 - Mark any rare, threatened or at risk habitats in the vicinity of the take (if relevant)
 - Surface water bodies and the distance from the point of take to them
 - The location of three bores not on your property nearest to the proposed bore
 - The coastline and the distance to it (if relevant)
- Water quality test results (if available)
- Pumping test results
- Water meter verification certificate (if available)

Please contact the consents team on freephone **0508 800 800** if you require assistance with your application.