# FORM B: GROUND WATER TAKE AND USE



#### **NOTES**

Resource use activities must meet all the conditions of any relevant Permitted Activity Rules in the Waikato Regional Plan or a resource consent from the Waikato Regional Council is required. This form will help you apply for a resource consent.

- You must fully complete this activity form and supply all the required information. Provide
  as much detail as you can where the questions are relevant to your activity. We request
  that, where possible, you provide electronic copies of any supporting information (for
  example, on CD). Doing so may reduce administrative costs charged to you.
- You must also supply completed Forms A and C.
- You must pay the required initial deposit when you submit this consent application.
- Failure to provide the required information and payment will delay the processing of
  your application. If you do not provide adequate information then we will not be able to
  process your application, and will return it to you. If you do not pay the required fees, we
  may stop processing your application until payment is received.

FOR OFFICE USE ONLY		
File:		
Client ID:		
Project:		

If you need any further help, please phone our Resource Use

LO	CATION	
1.	Is the water geothermally heated?	
	○ Yes ○ No	
2.	If known, please supply relevant map coordinates of activity or activities (preferably as New Zealand Transverse Mercator 2000 (NZTM2000 references). These locations must also be clearly identified on the location map you have supplied with Form A	

#### **INTENDED USE OF WATER**

3. Intended use of water activity

Will your use of water breach any of Waikato Regional Council's water management class standards? (Refer Section 3.2.4 of the Waikato Regional Plan, at the end of this form)	Yes	○ No
Will your use of water cause or contribute toward flooding on neighbouring properties?	Yes	○ No
Will your use of water result in any erosion that will not be quickly remedied?	Yes	○ No

| #7615 11/25

#### 4. For crop and pasture irrigation activities

Is the activity within the Waikato River catchment area from the Lake Taupō control gates to the Karāpiro Dam?	Yes	No
Is the activity within the catchment areas of Lakes Taharoa, Maratoto, Serpentine (North, South and East), Rotomanuka or Mangahia?	Yes	○ No
if yes, please specify which		
Will water be applied in a way or at a rate that may cause the water holding capacity of the soi within the plant root to be exceeded?	Yes	○ No
Will the rate of irrigation exceed the infiltration rate of soil or cause runoff or ponding of irrigated water?	Yes	○ No
Is your activity carried out <b>without</b> a Nutrient Management Plan to plan your water irrigation? (As per Table 3.10 of the Waikato Regional Plan – refer Appendix 1 at the end of this form).	Yes	○ No
Will irrigation result in any direct application of contaminants to any water body?	Yes	○ No
Will the irrigation result in any discharges to air beyond the boundaries of your property?	Yes	○ No
Will the irrigation result in any contamination of land?	Yes	○ No
NATURE OF THE PROPOSAL		
NATURE OF THE PROPOSAL		
NATURE OF THE PROPOSAL  5. Describe in detail the purpose for which the water is to be taken and used.		
5. Describe in detail the purpose for which the water is to be taken and used.		

Agriculture	○ Aquaculture	
Omestic and municipal supply	○ Ecological	
Flood control	O Horticulture/market gardening	
Industry (construction/roading)	O Industry (electricity generation)	
Industry (food processing)	O Industry (quarry/mining)	
Industry (timber/paper)	O Industry (other please state)	
Recreation	<ul> <li>Rehabilitation</li> </ul>	
Saline water		
Other (please state):		
	e further details about the use by selecting from the options be er them based on the volume of water required, using 'A,B,C	
Construction	Cooling	
	<ul><li>Cooling</li><li>Drilling and testing (geothermal)</li></ul>	
Construction		
Construction  Dewatering/water level control	O Drilling and testing (geothermal)	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)	<ul><li>Drilling and testing (geothermal)</li><li>Dust suppression</li></ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine	<ul><li>Drilling and testing (geothermal)</li><li>Dust suppression</li><li>Factory/industry processing</li></ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting	<ul><li>Drilling and testing (geothermal)</li><li>Dust suppression</li><li>Factory/industry processing</li><li>Fish pass</li></ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)  Irrigation	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> <li>Pit/lake filling</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)  Irrigation  Pools/bathing (geothermal)	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> <li>Pit/lake filling</li> <li>Pools/bathing (non-geothermal)</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)  Irrigation  Pools/bathing (geothermal)  Power generation – geothermal	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> <li>Pit/lake filling</li> <li>Pools/bathing (non-geothermal)</li> <li>Power generation – hydro</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)  Irrigation  Pools/bathing (geothermal)  Power generation – geothermal  Power generation – thermal	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> <li>Pit/lake filling</li> <li>Pools/bathing (non-geothermal)</li> <li>Power generation – hydro</li> <li>Shed wash</li> </ul>	
Construction  Dewatering/water level control  Drilling and testing (non-geothermal)  Equine  Firefighting  Flood control  Heating (geothermal)  Irrigation  Pools/bathing (geothermal)  Power generation – geothermal  Power generation – thermal  Stock water	<ul> <li>Drilling and testing (geothermal)</li> <li>Dust suppression</li> <li>Factory/industry processing</li> <li>Fish pass</li> <li>Frost protection</li> <li>Investigations/research</li> <li>Pit/lake filling</li> <li>Pools/bathing (non-geothermal)</li> <li>Power generation – hydro</li> <li>Shed wash</li> <li>Transporting/loading slurry</li> </ul>	

6. Tick the relevant activity descriptions below.

7.	Have you clearly established the ne accordance with the relevant Waika management plan with this applica	nto Regional Council		_	
	Municipal and domestic water supply wat	er-efficiency checklist.		Yes	○ No
	Agriculture and horticulture water-efficien	ncy checklist.		Yes	○ No
	Industry water-efficiency checklist.			Yes	○ No
	Note: these checklists are available from the Wa	ikato Regional Council's we	bsite or offices.		
WA	ATER TAKE ACTIVITY				
8.	If water is to be taken and used for	domestic, communit	y, rural or municipal drinkin	g water supply	y purposes:
	how many properties will the water take	supply? (please provid	e a scaled map that will show th	e extent of the w	ater scheme)
	for existing drinking water supplies – wil activities, from that previously authorise		n the nature or rate and volume o	of the take, or as	sociated
	○ Yes ○ No				
	if yes, please provide details				
9.	What is the maximum volume of wa	ater to be taken			
	(1 cubic metre (m3) = 1000 litres, 1 gallon	= 4.54 litres).			
			TAKE RATE/VOLUME		
	instantaneous rate of take	litres/second			
	each day	m³/day			
	each week (where applicable)	m³/week			
	each month (where applicable)	m³/month			
	each season (where applicable)	m³/season			
	total annual volume	m³/year			
	Provide the information and calculation MAF advice, irrigation consultant, previous	=			

WATER USE EFFICIENCY CHECKLIST

Are there regula	or times when this occur	rs?			
Yes	○ No				
If yes, please pr	ovide details:				
. Are there any	particular seasonal r	requirements that	may alter your	water take re	equirements?
Yes	○ No				
If yes, please pr	ovide details:				
. Are there like Yes If yes, please pr	ly to be any changes to No ovide details:	to your water take	requirements i	n the future?	?
Yes	○ No	to your water take	requirements i	n the future?	?
Yes  If yes, please pr	○ No	to your water take	requirements i	n the future?	?
Yes  If yes, please pr	○ No	to your water take	requirements i	n the future?	?
Yes  If yes, please pr	○ No		requirements i	n the future?	?
Yes  If yes, please pr  Pump details  Is the pump:	No No ovide details:		requirements i	n the future?	?
Yes  If yes, please process.  Pump details  Is the pump:  existing	No No ovide details:		requirements i	n the future?	?
Yes  If yes, please pr  Pump details  Is the pump: existing  If existing:	No  ovide details:  yet to be ins		requirements		itres per second/gallons pe
Yes  If yes, please proceed to the pump:  existing:  pump type and pump capacity	No  ovide details:  yet to be instance of model		requirements		
Yes  If yes, please process.  Pump details  Is the pump:  existing  If existing:  pump type and pump capacity  Bore hole/well	No  ovide details:  yet to be ins		requirements		
Yes  If yes, please proceed to the pump:  existing:  pump type and pump capacity	No  ovide details:  yet to be ins	talled	requirements		
If yes, please process.  Pump details  Is the pump:  existing  If existing:  pump type and pump capacity  Bore hole/well  Is the bore hole existing	No  ovide details:  yet to be instance d model /  Il details /well:	talled			

10. The number of hours you intend to take water per day

Has a pump test ever been ta	ken on the bore?		
Yes	○ No		
If yes, tick appropriate optior	:		
Waikato Regional Council	already has a record of the pump test results on file		
the results of the test are e	enclosed with this application		
the bore driller/contractor	has the results of the test (give name and address of driller)		
the test results are no long	ger available because		
Water meter details			
Is a water meter installed on t	the pump?		
Yes N	0		
If no, when do you intend on	having a water meter fitted?		
ii iio, when do you intend on	naving a water ineter inteu:		
If yes:			
is it tamper-proof?		Yes	○ No
does it have a pulse output?		Yes	○ No
does it have a minimum accu	uracy of +/- 5 per cent under field conditions?	Yes	○ No
is there an 'as built' plan of t	ne installed water meter?(include a copy with this application)	Yes	○ No
have daily records been kept	from the water meter?	Yes	○ No
does the Waikato Regional C (if no, include all meter recor	ouncil currently have all records to date?	Yes	○ No
Installation date:	us with your application)		
	ide a calibration certificate with your application):		
	, , , , , , , , , , , , , , , , , , ,		
Calibration done by:			
Company name:			
Contact person:			
Postal address:			
Daytime phone number(s):			
Current meter reading:	gallons/litres/cubic metres on:		

Note: If there is not already an existing meter, any consent granted for this activity will require a water meter to be correctly installed prior to any water being taken

#### **LAND MANAGEMENT PRACTICES**

The Waikato Regional Council will use the following information to determine the effects of irrigation and nutrients leaching on ground water and soil quality. 16. What is the average number of milking cows per hectare of irrigated land: 17. Other stock grazing irrigated land (specify stock type, and number per hectare): 18. How long after having been grazed will these areas be irrigated? days 19. How much nitrogen fertiliser do you apply per year? kg/ha 20. When do you intend applying nitrogen fertiliser? month/year 21. How long after fertiliser is applied will the area be irrigated? days 22. In addition to the water take information provided please also advise: type of plant crop method of irrigation (for example, sprinkler, trickle, travelling irrigator) maximum area to be irrigated on a daily basis ha total area to be irrigated ha months you expect to irrigate (for example, December – March) intended irrigation regime (for example, 3 ha per day, with 5 day return period) dominant soil type to be irrigated (for example, Te Kowhai silt loam, Te Rapa silty peat, Hamilton clay loam)

#### ASSESSMENT OF EFFECTS ON THE ENVIRONMENT

**GROUND WATER TAKE ACTIVITY** 

Fully complete this section. The Resource Management Act 1991 requires any application to provide information on the actual and potential effects of your proposed activity on the surrounding environment and other people. You must also show how you intend to avoid, remedy and lessen these effects.

Yes	○ No		
f yes, provide deta the bores.	ails of the numbe	r, location, use (such as domestic/stock wate	er supply, irrigation or unused) and owner
Owner's name		Location (e.g. distance from your bore)	Use
		your proposed ground water take activ g bore owners.	rity on the availability of ground wat
		-	rity on the availability of ground wat
the aquifer and	ssible effect of	-	rity on surface water flows, including
the aquifer and	ssible effect of	your proposed ground water take activ	rity on surface water flows, including
the aquifer and	ssible effect of	your proposed ground water take activ	rity on surface water flows, including
the aquifer and	ssible effect of	your proposed ground water take activ	rity on surface water flows, including
the aquifer and	ssible effect of	your proposed ground water take activ	rity on surface water flows, including
the aquifer and	ssible effect of	your proposed ground water take activ	rity on surface water flows, including

Do any stock e	nter or drink from the	ese surface water bodies?
Yes	No	
16		
If yes, provide de	etails	
	ng of local volunteers	t of any enhancement or conservation initiative (such as a local strear s, or a larger organisation initiative such as Waikato Regional Council
group consisti	ng of local volunteers	
group consisting Clean Streams	ng of local volunteers project)  No	
group consisting Clean Streams  Yes	ng of local volunteers project)  No	
group consisting Clean Streams  Yes	ng of local volunteers project)  No	
group consisting Clean Streams  Yes	ng of local volunteers project)  No	
group consisting Clean Streams  Yes  If yes, provide de	ng of local volunteers project) No etails	s, or a larger organisation initiative such as Waikato Regional Council
group consisting Clean Streams  Yes  If yes, provide de	ng of local volunteers project) No etails	

#### **WATER MANAGEMENT CLASS**

capacity of th	e water bouy, and	ifor the effects of a	my umuse or point	source discharges t	to taile of water.
	water intrusion to	•		with your proposed r aquifers, aquifer c	•
example, salt	water intrusion to	•			•
example, salt	water intrusion to	•			•

#### **MATTERS OF SIGNIFICANCE TO IWI**

## 33. Are your proposed activities likely to affect: a) relationship of tangata whenua and their culture and traditions with the local watercourses and land if yes, provide details b) any waahi tapu or other taonga of importance to tangata whenua O Yes O No if yes, provide details c) the abililty of tangata whenua to exercise their kaitiaki role in respect of waahi tapu or other taonga affected by your proposed activities O Yes ○ No if yes, provide details

#### **ALTERNATIVE OPTIONS**

already describ	s of the alternative options you have considered in addition to the taking and using of water bed. Alternative options may include water harvesting and the storage of water for future ater, adopting industry best practice measures, upgrading to more water efficient equipment/
-	apply these alternative options in part or in combination with your proposed activities to atter requirements?
Yes	○No
If yes, provide de	tails
5. What alternativ	ve options are you willing to consider should your activities result in either of the following
	d ground water take assessed in combination with all other currently authorised takes exceeds the eld of the aquifer:
b) your proposed	d use is likely to adversely effect the environment (such as other land uses, neighbours or water quality):

#### **MONITORING AND MITIGATION**

Fully complete this section. The Resource Management Act 1991 requires any application to provide information on how your proposed activity will be monitored and what you will do to avoid, remedy and mitigate (minimise, offset or compensate for) the effects of your activity. 37. Does your bore hole/well have access for water level monitoring? O No ( ) Yes 38. Is it possible for you to increase the length of time over which water is taken (that is, pump at a lower rate)? Yes If yes, provide details 39. Is it possible for you to alternate your period of pumping with neighbouring users? ( ) Yes O No If yes, provide details (note: you will need to consult with your neighbours and get their approval for this). 40. Do you have any storage facility (such as ponds or tanks) so that water can be taken at a low rate and then pumped at a higher rate to the areas required? Or alternatively, do you have any storage facility so that water can be taken and stored in winter months when flows are higher? ( ) Yes O No If yes, provide details 41. Describe any other water conservation and minimisation measures that could be taken during water shortage conditions

What improvements in your water take and/or use infrastructure do you intend to adopt during the term of your consent(s) if it is granted?
Describe how you will avoid, remedy or mitigate the effects of your activities on any aquatic life, food source wetlands and/or areas of cultural, aesthetic or scientific value

prefer this information to be submitted in an electronic format, such as CD.

#### **CONSULTATION**

Unless the Waikato Regional Council has indicated otherwise, you should identify and consult with any parties that may be potentially affected by or interested in your water take activity.

- This generally involves at least your neighbouring bore users (within a 1 km radius from your abstraction point.)
- · It may also include local district councils, iwi and interest groups such as local recreational and care groups.
- If you are in doubt about who you should be talking to, then call the Waikato Regional Council's staff.

Make sure you provide everyone with sufficient information so that they can fully understand what it is you want to do and how they may be affected by it. This could include a copy of this application form once it is completed and/or any plans or maps. Make sure you make yourself available to explain the application, answer any questions and discuss options for resolving any concerns.

#### 45. Identify the parties that may be affected by or interested in your activity and consent application

Party details/relationship (such as neighbour, local iwi, interest group)		
Contact person		
Postal address		
Phone number/s	Home:	Business:
	Mobile:	
Party details/relationship		
(such as neighbour, local iwi, interest group)		
Contact person		
Postal address		
Phone number/s	Home:	Business:
	Mobile:	
Party details/relationship		
(such as neighbour, local iwi, interest group)		
Contact person		
Postal address		
Phone number/s	Home:	Business:
	Mobile:	

Other affected or inter	rested parties
Provide details of y	our consultation
possible you should pr	the consultation you have undertaken, or explain why consultation was not considered necessary. If rovide written comment or approval from those you have identified. A consultation form is provided at the rill help you with this. Photocopy off a separate form for each party identified. Otherwise, make sure you
<ul> <li>who you consulted to</li> </ul>	with
<ul> <li>how we can contact</li> </ul>	
•	you (for example, neighbour, local iwi, interest group)
<ul> <li>any concerns they n</li> </ul>	nay have about your activity, and how you intend to avoid or mitigate (lessen) these effects.
AL CHECKLIST	
Have you? (please t	ick)
_	f this form (Form B) that are relevant to your activity, provided all the information required, and attached any other related activity forms.
Completed and att	ached Forms A and C.
-	trict council consents that are also required for your proposal.
	interested and affected parties, and included their comments and/or written approval (if possible).
( ) Included or paid th	ne required denosit fee for this application

#### APPENDIX 1 - NUTRIENT MANAGEMENT PLAN REQUIREMENTS (TABLE 3-10 OF THE WAIKATO REGIONAL PLAN)

Type of land use	Nutrient management plan requirements
All land uses applying more than 60kg N/ha/yr	A nutrient management plan must be prepared that, as a minimum records the following information for at least nitrogen (N) and phosphate (P) (in units of kg of N and P per hectare per year):
	inputs from fertiliser
	inputs from other sources such as manures, green crops and soil mineralisation
	outputs in product
	results of soil testing for levels of available N and P
	documentation of consideration given to climatic and soil conditions for the life of the crop to account for the effects of rainfall and irrigation on the potential for N and P leaching through the soil in to ground and surface water
	<ul> <li>practices that will be implemented to reduce nutrient and sediment losses from the property and to avoid, remedy or mitigate adverse effects on the environment.</li> </ul>
Pastoral	The nutrient management plan specified above must be developed based on the outputs of either Overseer (Agresearch) or any other nutrient management planning tool that meets the criteria set out below.
Commercial vegetable/fruit production, arable/ mixed cropping and livestock or other land use not otherwise in this table	From 1 January 2011, the nutrient management plan specified above must be developed based on the outputs of any nutrient management planning tool that meets the criteria set out below.

#### Nutrient Management Planning tools other than Overseer and SPASMO must:

- be a Crown Research Institute, university or iIndustry developed model that has successfully completed commercial trials commensurate with climatic, terrain and soil conditions expected to be encountered in the Waikato region
- be able to predict annual, seasonal or crop nutrient losses at either a paddock or total crop area scale with a margin of error no more than 30 per cent
- have been calibrated against current versions of either Overseer or SPASMO, or versions that are no more than 3 years old, and any departures from those models when using identical data sets documented and explained
- · have product maintenance and support currently available as of the date of use or guaranteed for a period of one year.

#### APPENDIX 2 - WATER MANAGEMENT CLASS PURPOSES (SECTION 3.2.4 OF THE WAIKATO REGIONAL PLAN)

#### **Suspended Solids Standards**

- The activity must not increase the concentration of suspended solids in the receiving water by more than 10 per cent.
- The suspended solids concentration of the discharge shall not exceed 100 grams per cubic metre; or
- · The activity or discharge shall not result in any of the following receiving water standards being breached:
  - Indigenous Fisheries and Fish Habitat Class waters 80 grams per cubic metre suspended solids concentration.
  - Significant Trout Fisheries and Trout Habitat Class waters 25 grams per cubic metre suspended solids concentration.
  - Contact Recreation Class waters black disc horizontal visibility greater than 1.6 metres.

#### **Surface Water Class Standards**

- There must be no significant adverse effects on existing aquatic ecosystems as a result of:
  - changes in dissolved oxygen
  - changes in flow regimes due to instream structures
  - · changes in pH
  - increases in deposition of bed sediments
  - · increases in undesirable biological growths
  - · discharge of a contaminant.

- · As a result of added heat, the water temperature shall not be changed by more than three degrees Celsius.
- All water intake structures shall be screened with a mesh aperture size not exceeding three millimetres in diameter at locations less than 100 metres above mean sea level, or five millimetres in diameter at locations greater than 100 metres above mean sea level
- The maximum intake velocity for any water intake structures shall not exceed 0.3 metres per second.
- · Any discharge into, or utilisation of, the water resource shall not cause a conspicuous change in visual colour or clarity.
- The water shall not be tainted or contaminated so as to make it unpalatable or unsuitable for consumption by humans after treatment (equivalent to coagulation, filtration and disinfection).
- The water shall not be tainted or contaminated so as to make it unsuitable for irrigation.

#### **Natural State Water Class Standards**

Water quality and flow regimes of Natural State Waters shall not be altered in any way that may compromise their aquatic riparian habitat value for indigenous species.

#### **Contact Recreation Water Class Standards**

- The black disk horizontal visibility of the waters shall be greater than 1.6 metres.
- The median concentration of E. coli of at least seven samples taken throughout the bathing season (1 December to 1 March) in dry weather conditions shall not exceed 126 E. coli per 100 millilitres. Sampling is to be undertaken between 9am and 6pm, at a depth of 300 millimetres. Single-sample maximum shall not exceed 235 E. coli per 100 millilitres.
- The waters shall not be rendered unsuitable for contact recreation activities by the presence of contaminants.
- · Bacterial and/or fungal slime growth shall not be visible to the naked eye as plumose growths or mats.
- The seasonal maximum cover of stream or river beds by periphyton as filamentous growths or mats (> 3 millimetres thick) shall not exceed 40 percent and the biomass on the bed shall not exceed 100 milligrams chlorophyll a per square metre over a representative reach.

#### **Significant Indigenous Fisheries and Fish Habitat Standards**

- All water intake structures shall be screened with a mesh aperture size not exceeding 1.5 millimetres in diameter at locations less than 100 metres above mean sea level, or three millimetres in diameter at locations greater than 100 metres above mean sea level.
- The maximum intake velocity for any water intake structures shall not exceed 0.3 metres per second.
- No structure or activity that will prevent the natural passage of fish or has the potential to do so, shall be constructed or undertaken unless provision is made for the maintenance of fish passage both upstream and downstream.
- Where water is to be taken or diverted from or into any water, sufficient flow and/or water depth shall be maintained to allow for the unimpeded passage of fish at all times and for the maintenance of fish habitat and spawning.
- As a result of added heat, the temperature of the water shall not be changed by more than 3 degrees Celsius.
- The temperature of the water shall not be caused to exceed 25 degrees Celsius as a result of added heat and shall not adversely affect the passage or spawning of fish.
- Ammoniacal-nitrogen shall not exceed 0.88 grams of nitrogen per cubic metre.

#### **Significant Trout Fisheries and Trout Habitat Standards**

- · All water intake structures shall be screened with a mesh aperture size not exceeding three millimetres in diameter.
- The maximum intake velocity for any water intake structures shall not exceed 0.3 metres per second.
- As a result of added heat, the temperature of the water shall not be changed by more than 3 degrees Celsius, and shall not
  exceed 20 degrees Celsius at any time. Where spawning occurs the temperature shall not be caused to exceed 12 degrees
  Celsius between May and September.
- Where water is to be taken or diverted from or into any water body, sufficient flow and/or water depth shall be maintained to allow for the unimpeded passage of fish at all times and for the maintenance of fish habitat and spawning.
- The discharge shall not cause dissolved oxygen to fall below 80 percent of saturation concentration. If the concentration of dissolved oxygen in the receiving environment is below 80 per cent saturation concentration, any discharge into the water shall not lower it further.
- Fish shall not be rendered unsuitable for human consumption by the presence of contaminants.
- Ammoniacal-nitrogen shall not exceed 0.88 grams of nitrogen per cubic metre.
- No structure or activity that will prevent the natural passage of fish or has the potential to do so, shall be constructed or undertaken unless provision is made for the maintenance of fish passage both upstream and downstream.

### **CONSULTATION FORM**

#### PHOTOCOPY THIS FORM FOR EACH PERSON OR GROUP TO BE CONSULTED

Applicant	
Description of proposal	
Person/group consulted in	n regard to this proposal
Name of contact person	
Name of group	
Postal address	
Street address	
Email address	
Contact number/s	phone:
adversely affected, please indiconsider you will be affected?	Regional Council to know your views on the applicant's proposal, and/or if you consider you may be cate your views below (attach additional pages if necessary). Consider the following: How do you How would you like the applicant's proposal to be modified to take account of your views? What other proposal that you would like the Waikato Regional Council to consider in making a decision on these?
Please indicate how your prop	iews of consulted parties (to be completed by applicant) cosal can be modified to take account of the views of the party you have consulted with (or why the e modified to take account of those views).
Consulted party's respons	se to the proposal (to be completed by person/group consulted) Please tick one only
I/We give my/our approval	l for the proposal I/We do not give my/our approval for the proposal
I/We are not affected by th	nis proposal
Signed	Date