



## **Damming of Water**

The damming or impounding of water is controlled by section 14 of the Resource Management Act 1991. The damming of water is prohibited unless expressly allowed by a National Environmental Standard, regional rule or resource consent.

Where the damming of water does not comply with Permitted Activity Rule 12.3.2.1 of the Regional Plan: Water for Otago (RPW) a resource consent (water permit) is required from Otago Regional Council (ORC). This applies to the damming of water both in a natural watercourse (instream dams) and outside of a natural watercourse (e.g., storage or detention ponds and reservoirs which may also be called off-line dams). This applies to both new and existing dams.

Resource consent (land use) may also be required for the dam structure if it is located within the bed of a watercourse and for works associated with constructing the dam (if it is new). Depending on the scale of the damming, a resource consent (discharge permit) may also be required for discharges from the dam e.g., spillway or outflow discharges.

#### **Existing dams**

- Unless permitted by Rule 12.3.2.1, a water permit is required for the damming of water by an existing dam.
- If water is taken out of the dam reservoir or pond for use than a water permit will be required for this taking if it is not permitted by rules in 12.1 of the RPW. If it is a retake of water that has been delivered to the dam reservoir from another source, the water permit for the source of the water in the reservoir could include the retake component (i.e. only one water permit to take water needs to be granted which will include both take locations). If not, a water permit for the retake will be required.
- Existing dam structures within a natural watercourse may also require **land use consent** in accordance with the rules in Chapter 13 of the RPW if you do not have a current resource consent in place for the structure.
- Existing dam structures located outside of a natural watercourse do not require land use consent from Otago Regional Council. Provided these structures were lawfully established, they form part of the existing environment.

#### **New dams**

- Unless permitted by Rule 12.3.2.1, a water permit is required for the damming of water in a new dam or pond. A water permit may also be required for taking and using of water from the dam and/or for the retaking of water delivered to the dam from another source. Form 4 can be used for that purpose.
- New dam or pond structures located outside of a natural watercourse do not require land use consent from Otago Regional Council but may require land use consent from the relevant District or City Council.
- Unless permitted by Rule 13.2.1.3, a land use consent is required for a new dam within a natural watercourse. Such structures are discretionary activities in accordance with Rule 13.2.3.1 of the Regional Plan: Water for Otago. A land use consent may also be required for disturbance of the bed of a natural watercourse under rules in Chapter 13.5 of the Water Plan during construction of the structure. This includes the associated remobilisation and re-deposition of bed material. Use Form 10A for these applications.

## **Definitions**

Dam: A structure used or to be used for the damming of any water, or water body.

Large dam (Building Act 2004 definition): Means a dam that has a height of 4 or more metres and holds 20,000 or more cubic metres volume of water or other fluid.

#### Small dam: A dam:

- (a) Where the size of the catchment upstream of the dam is no more than 50 hectares; and
- (b) where the water stored immediately upstream of the dam is no more than 3 metres deep; and
- (c) where the volume of water stored by the dam is no more than 20,000 cubic metres.

To dam: In relation to the damming of water, is the process of impounding the water for any purpose and for any period of time, as in a reservoir.

- A water permit may be required to divert water if flows are to be diverted during dam construction and permitted activity Rule 12.3.2.3 cannot be met. Form 3 can be used for this purpose.
- A discharge permit for the discharge of water from a dam (e.g. spillway discharge) may be required if permitted activity Rule 12.B.1.10 cannot be met for 'large' dams (dams that would require a consent for the original structure placement). Most damming discharges cannot meet this permitted activity because the discharge includes settled sediment. Consent is required under Rule 12.B.4.1. For 'small' dams the relevant permitted activity rules are 12.C.1.1 and 12.C.1.2. Both of these need to be met for the activity to be permitted. If a discharge permit is required, use Form 7 for this application.
- Separate discretionary resource consent for a weir may also be required under **Regulation 73 of the NESFW**. Under these standards, a weir means an open-topped structure across the full width of any river or connected area that— (a) alters the water level and the flow characteristics of the water; and (b) allows water to flow passively through or over the top. Note: a weir is to be considered as a dam under the RPW irrespective of how it is defined in the NES-FW. This may mean that consent is required for a weir to dam under the RPW and under Regulation 73 of the NES-FW (or one or the other).
- **Regulations 58-74 of the NESFW** require information on the location, dimensions and design of any new dams in rivers to be provided to ORC. This applies regardless of whether the dam structure is permitted or not.
- Large dams will also require Building Consent. Building Consents for dams in the Otago Region are currently processed by Environment Canterbury. Further advice can be found here: <a href="https://www.ecan.govt.nz/do-it-online/resource-consents/building-consent-for-large-dams/">https://www.ecan.govt.nz/do-it-online/resource-consents/building-consent-for-large-dams/</a>

Where the damming of water requires a water permit, regardless of whether the dam structure requires a land use consent or building consent, applicants are required to provide details of the suitability and safety of the dam structure to impound the proposed (or existing) volume of water. This is particularly important for existing dams that may be ageing.

Applications for a water permit for the damming of water can be made by completing Form 1 and Form 2 (attached).



## **Resource Consent Application Form 2**

#### To dam water

This application is made under Section 88 of the Resource Management Act 1991.

### PLEASE READ THIS PAGE BEFORE COMPLETING THE APPLICATION FORM

This form is to be used for applications seeking to dam water. This form applies to both the damming of water within a watercourse ('instream dams'), or outside of a watercourse ('off-line dams').

A number of resource consents may be required for the construction of a dam and / or the impoundment of water behind a dam. This Form addresses the requirements for a **water permit** to **dam water** only.

Depending on the location of your dam structure, and if the dam structure is existing or new, you may not need to fill out all parts of this Form.

Please note that additional permits may be required when damming water. These include:

- a water permit to take surface water or groundwater, should the dam impound water for which no consent is held to take the water (see Form 4 or 5), and
- a water permit to divert water, if flows are to be diverted during dam construction (see Form 3).
- a discharge permit to discharge water from a dam (see Form 7),
- a land use consent to erect a dam structure in the bed of a watercourse (see Form 10A),
- a discharge permit to discharge contaminants to water during dam construction (see Form 7); and
- a building consent for the dam structure. Please note that dam structures and dam modifications require a building consent under the Building Act (2004). Environment Canterbury currently issue building consents for dams in the Otago region. You will need to apply to Environment Canterbury directly for a building consent. <a href="https://www.ecan.govt.nz/do-it-online/resource-consents/building-consent-for-large-dams/">https://www.ecan.govt.nz/do-it-online/resource-consents/building-consent-for-large-dams/</a>

Form 1 and Form 2, when properly completed, may provide an adequate "Assessment of Effects on the Environment" (AEE) if the effects of the damming are small and limited. Where the effects of the proposal are larger, a separate AEE should be provided and should be supported by a report by a professional advisor. The required detail for an AEE should reflect the scale and significance of the potential adverse effects the proposed damming activity may have on the environment. We encourage applicants to provide as much information as possible in their application to avoid processing delays and increased costs.

Guidance to answering the questions appear at the end of this form: "Notes to provide Guidance on Completing Form 2". Details of the information required in an AEE are included in the Fourth Schedule of the Resource Management Act 1991 appended to Form 1: Resource Consent Application.

If all the necessary information is not supplied with the application then Otago Regional Council may return your application, request further information or decline your application. This will lead to delays in the processing of your application and may increase processing costs.

## PART A: Description of the Proposed Damming and Associated Activities

A.1	Is th	e application to dam water:	
		a new consent, or	
		to replace an existing consent?	(consent number)
A.2	cann	se Indicate what provisions of Permitted Activity Rule 12.3.2.1 of the Regnot be met by the proposed damming activity. A copy of the permitted activity water (orc.govt.nz):	
		The size of the catchment upstream of the dam is greater than 50 hectar to off-line dams where no catchment runoff is collected).	es in area ( <b>note</b> : this does not apply
		Size of catchment upstream of dam:	
		The water immediately upstream of the dam is more than 3 metres deep	).
		Maximum water depth immediately behind dam:	
		The volume of water stored by the dam is more than 20,000 cubic metre	S.
		Maximum volume of water able to be stored behind dam:	
		A lawful take will be adversely affected by the damming.	
		Identify take(s) affected, and water permit numbers, if known:	
		A wetland identified in Schedule 9 of the Regional Plan: Water or any we metres above sea level will be adversely affected by the dam.	etland higher than 800
		Name/describe the wetland(s):	
		The dam will cause either flooding, erosion, land instability, sedimentation person's property.	on or damage of another
		Name which effect above, and whose property (if relevant):	

#### A.3 Prohibited damming

The damming/diversion of the following rivers is prohibited by Rules 12.3.1.1 to 12.3.1.4 of the RPW.

- Kawarau River main stem from Scrubby Stream to the Lake Wakatipu control gates (F41:035680 to F41:738667).
- Shotover River main stem at or about F41:765680 to E40:662173);
- Dart River/Te Awa Whakatipu main stem from Lake Wakatipu to confluence with Beans Burn (at or about E41:438853 to E40:375077).
- Rees River main stem from Lake Wakatipu to confluence with Hunter Creek (at or about E41:448852 to E40:499117).
- Diamond Lake, Diamond Creek and Lake Reid (at or about E40:435975; E40:444963 to E40:450918).
- Lake Wanaka and the Upper Clutha River/Mata-Au between F40:050089 to F40:088067, other than for the duration of an emergency as declared by the Guardians of Lake Wanaka under the Lake Wanaka Preservation Act 1973.

Damming is prohibited for the below water bodies except for stock water supply purposes only

- Pomahaka River, including its tributaries, from its sources to its confluence (G45:447454) with the Clutha River/Mata-Au:
- Waipahi River from its source to its confluence(G45:194520) with the Pomahaka River; and
- Lower Clutha River/Mata-Au from its confluence (G45:447454) with the Pomahaka River to the sea at the mouths of the Matau and Koau Branches.

Is your proposal in one of the above catchments?

			Yes (please speak with a Consent Planner – you may be unable to apply for a consent)
			No (go to question A.4)
A.4	Purpo	se for da	mming water: (Tick as appropriate)
		Irrigatio	1
		Water h	arvesting / storage
		Stock wa	ater supply
		Domesti	c water supply
		Stormwa	ater treatment
		Hydroele	ectric power generation
		Orname	ntal (specify):
		Other (s	pecify):
A.5 Ot	ther Re	source Co	onsents required
A5.1 (a	) Do yo	u hold a v	vater permit to take the water that supplies the dam/reservoir and/or do you hold a
W	ater pe	rmit for t	aking water from the dam/reservoir?
			Yes (permit number/s):(go to Question A.4.2)
			No (go to question A.4.1(b))
			Not applicable (specify why):

	(6)	Wate		supplies the dam and/or for taking and using
			Yes (permitted activity rules comply	with):
			No (a water permit may be required	d, use Form 4 or5)
			• Tick if Form 4 or 5 are at	tached.
A5.2	(a) [ wat	-	intend on discharging water from th	e dam into water or onto land where it may enter
			Yes (please specify how):	(go to Question A.4.2(b))
			No (go to Question A.4.3)	
			Not applicable (specify why):	
	(b)	Do yo	ou hold a Discharge Permit to dischar	ge water to water from the dam?
			Yes (permit number):	(go to Question A.4.3)
			No (if consent is required for the da 12.B.4.1. Use Form 7.)	mming activity, a discharge permit is required under Rule
			• Tick if Form 7 attached.	
A5.3	(a) [	Do you	propose to construct a new dam in	a watercourse?
			Yes (go to Question A.4.3(b))	
			No (go to Part B)	
	(b)	comp	ly with the Permitted Activity Rules	onsent to dam water is needed you will be unable to given in Section 13.5.1 of the Regional Plan: Water. As bed disturbance, please fill out Form 10A.
			Tick if Form 10A attached	
	(c)	or riv	ver, if consent to dam water is nee	the proposed dam structure within the bed of a lake ded you will be unable to comply with the Permitted d 13.3.1 of the Regional Plan: Water, and a land use DA).
			Tick if Form 10A attached	
	(d)			ratercourse to construct a dam, are you able to comply Section 12.3.2 of the Regional Plan: Water?
			Yes (no water permit - divert is requ	ired)
			No (a water permit for the diversion	is required, use Form 3)
			• Tick if Form 3 is attached	1

## PART B: Location of the Proposed Activity

**B.1** Describe the property on which the proposed/existing dam structure is to be located (if the dam is located on Crown Land River Bed, please note on (e) below)

(a)	Full name(s) of owner(s)
(b)	Full name(s) of occupier(s)
(c)	Address/Location
(d)	Legal Description(s) (as shown on Record of Title, a copy of your Record of Title can be obtained from Toitū T Whenua Land Information New Zealand (linz.govt.nz))
	LotDPSec
	Survey District (SD)
	Area (Nearby town etc.)
	Other (specify)
(e)	Is the dam located on Crown Land River Bed: Yes: ? No ?
	If Yes, give the legal description of the property adjacent to the proposed structure
inunda (a)	is currently/will be inundated as a result of the proposed dam structure, please describe the property(s) to ated  Full name(s) of owner(s)
(b)	Full name(s) of occupier(s)
(c)	Address/Location
(d)	Legal Description(s) (as shown on Record of Title)
	LotDPSec
	Survey District (SD)
	Area (Nearby town etc.)
	Other (specify)
3.3 Mapro	eference of the proposed/existing dam structure in NZTM 2000:
NZT	TM 2000: EN
3.4 If your water	proposed/existing dam structure is to be located within a natural water body, please provide the name of t body:
	he water body is unnamed then note this and give the name of the water body to which it flows into)

B.5 Please provide a plan (A4 or A3 size) with this application that shows the following:

(a) The location of the proposed/existing dam structure.

- (b) Natural ground contours.
- (c) The pattern of land inundation that will occur when the proposed dam is full and land inundation at different operating levels (if relevant).
- (d) The legal boundaries of all property(s) that will be affected by the proposal, including the names of the owners and/or occupiers of those properties.
- (e) The location of any spillway or overflow.
- (f) The flow-path of any water body(s) (please indicate the direction of flow with an arrow).
- (g) Any other relevant features, such as roads, bridges, dwellings, other structures (such as farm buildings) heritage or waahi tapu sites, cultural sites or other landmarks.
- (h) The location of any known New Zealand Freshwater Fish Database (NZFFD) records, water quality monitoring sites, recreational river use locations.
- (i) The location of any consented activities or known permitted activities including any upstream or downstream water users (include name(s) and distance(s) if known).
- (j) Overflow / flood paths (include buildings and infrastructure that may be within the flood path).
- (k) A north symbol; and
- (l) A scale

### **PART C: Description of the Catchment**

Please provide a description of the site and the receiving environment. This will include details of the catchment and land use, catchment hydrology, the natural and human use values and existing lawful users and existing lawful structures. Please provide the source of the information, where known.

## Land Use/Soils and Geology

For new damming activities only:

- **C.1** What is the surrounding land used for upstream of the proposed dam? (please ensure that land use upstream includes the proposed reservoir area).
- **C.2** Please describe the composition of the bed of the water body/soils of the land on which the dam is to be located.

For all damming activities:

- **C.3** Please describe and identify on the map required by B.5 the existing locations on the water body and surrounding land where flooding, erosion, land instability and property damage currently occurs as a result of the existing dam or flows in the water body.
- **C.4** What is the surrounding land used for downstream of the proposed dam? (please ensure that land use downstream is described to a distance appropriate to the scale of possible downstream effects in the event of dam failure).

### Hydrology

C.5	If the proposed/existing damming is in a natural water body or there could be water bodies affected by the off-lin
	damming:

(a) Is th	(a) Is the proposed damming located in a water body?					
	Yes					
	No, it is an off-line dam but there are nearby water b	odies that could be affected by the damming				
	No, it is an off-line dam and no nearby waterbodies v	vill be affected by the damming				
(b) Is th	b) Is the water body:					
Pe	rennial (flows all year round):	?				
Ер	hemeral (flows for parts of the year only e.g. spring):	?				
Int	termittent (flows occasionally, e.g. after heavy rainfall)	?				

(c)	Mean flow of water body (if known):	(L/s or m <sup>3</sup> /s)
(d)	Mean annual low flow of water body (7-day MALF) (if known):	(L/s or m³/s)
(e)	Describe frequency and duration of flows if ephemeral or intermitten	t (if known)
- (f)	Flow for 50 year return period flood (if known)	(L/s or m³/s)
(g)	Flow for 100 year return period flood (if known)	(L/s or m³/s)
(h)	Flow for 100 year plus/super design event (if known)	(L/s or m <sup>3</sup> /s)
Natura	al and Human Use Values	
	e proposed/existing damming <u>is</u> in a natural water body or there coulo iming:	d be water bodies affected by the off-line
(a)	Please describe the aquatic life present in the water body(s) (including	g within any existing reservoir and
	the water body upstream and downstream of the damming). This ma	y include fish (native and
	introduced species), invertebrates, aquatic vegetation and riparian ve	egetation. Schedule 1 of the RPW
	will provide some guidance on ecological values within the water boo	ly but this will not be a complete
	understanding of ecological values. Note: An Ecological Report will of	ten be needed to support an
	application.	
(b)	Please describe the avian fauna including aquatic waterfowl associate downstream of the damming and within any existing reservoir).	ed with the water body (upstream
(c)	Please identify and describe any natural inland wetlands or Regional S adjacent to the water body, inundation area and/or dam break area. website can be found here: Regionally Significant Wetlands (orc.govt.	Information about wetlands on the ORC
(d)	Please identify and describe any terrestrial values that are within or a and/or dam break area.	djacent to the water body, inundation are
	,	
(e)	Please outline and describe the current water quality of the water bo ORC website can found here: <a href="Water Quality (orc.govt.nz">Water Quality (orc.govt.nz</a> ). Water qual Land, Air, Water Aotearoa (LAWA) - Can I swim here?	

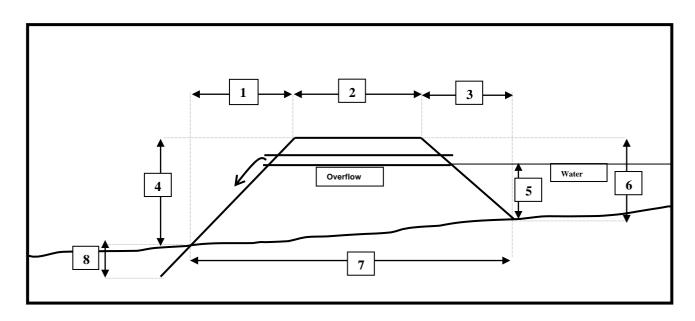
(g)	Please identify and describe any cultural values associated with the water body, inundation area and/or the break area. You may need to review Schedule 1D of the RPW, iwi management plans and undertake construction with iwi to confirm what the specific values are. Some information may also be found here: <a href="https://doi.org/10.1007/journal.co.nz">Atlas — Culture Mapping Project — Te Rūnanga o Ngāi Tahu (kahurumanu.co.nz)</a>
(h)	Please identify and describe any heritage values associated with the water body, inundation area and/or to break area. Heritage information can be found at: <a href="Heritage New Zealand">Heritage New Zealand</a> and <a href="Archaeological site">Archaeological site</a> recording scheme - NZ Archaeological Association (nzarchaeology.org). There is also some guidance in Schalb of the RPW.
(i)	Please identify and describe any other water users, including existing consented users, community water and recreational users within or adjacent to the water body. Information on regional consents can be four LocalMaps (orc.govt.nz)
(j)	Please describe the existing natural character of the water body, inundation area and/or the dam break as
he p	roposed dam is located <u>outside</u> of a natural water body (e.g. it is an off-line dam):  Does the dam receive any natural runoff from the surrounding catchment?
he p	roposed dam is located <u>outside</u> of a natural water body (e.g. it is an off-line dam):
he p	roposed dam is located <u>outside</u> of a natural water body (e.g. it is an off-line dam):  Does the dam receive any natural runoff from the surrounding catchment?  • Yes (please describe):
he p (a) [	roposed dam is located <u>outside</u> of a natural water body (e.g. it is an off-line dam):  Does the dam receive any natural runoff from the surrounding catchment?  • Yes (please describe):  • No  Please outline and describe the existing natural values (terrestrial) of the land where the proposed dam and

## PART D: Dam Design Details

(a)	Have you	u employed a professional advisor to design the dam?						
		Yes (givedetails):						
		No (give reasons why not)						
(b)		New Zealand Society on Large Dams (NZSOLD) Guidelines (2015) been considered tps://nzsold.org.nz/wp-content/uploads/2019/10/nzsold dam safety guidelines-n						
		Yes						
		No (describe why not):						
(c)	What is t	the estimated start date of dam construction?						
(d)	What is t	the estimated completion date of dam construction?						
(e)	When w	ill initial filling of the reservoir commence?						
(f)	When w	ill initial filling of the reservoir finish?						
(g)	Give a de	escription of site conditions and construction methodology, including (but not limite	ed to) •					
	Founda	Foundation conditions, including any bore logs, results of shear strength testing etc.						
	• Ex	cavation and key requirements						
	• Co	ompaction requirements						
	• Pr	oposed construction						
	ase note t equired):	hat for all dams of greater than "low" risk (as defined by NZSOLD), a professional er						
(h)	Please e	nclose labelled photographs of the site with this application, including						
	(i) Prop	posed dam site, or	?					
	(ii) If an	existing structure, the upstream batter, downstream batter, abutments, spillway,						
	outflow	pipe, dam crest, overflow path; and	?					
	(iii) Viev	v upstream of the dam site	?					
	(iv) Viev	v downstream of the dam site	?					
	(v) Othe	er (anything else of relevance e.g. sites of identified natural and cultural values)	?					

## **D.2** Dam Design and Dimensions

**D.2.1** Please fill in the dimensions shown on the diagrams in the lists below (if the dam design is different from that shown below, please include a diagram showing all dimensions).



- 1. Downstream batter width
- 2. Crest width

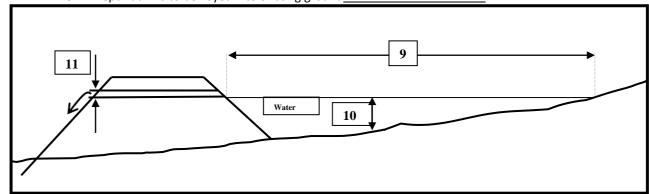
5.

Upstream batter 3.

- Downstream batter height 4. Overflow pipe height or spillway crest

6. Upstream batter height

- 7. Dam base width
- 8. Depth dam is to be keyed into existing ground\_



- Length of pond behind dam
- 10. Maximum depth of reservoir
- 11. Diameter of overflow pipe

Other dimensions not shown on diagrams

- 12. Crest length:
- 13. Spillway width:
- 14. Spillway depth:
- 15. Spillway inlet height:
- 16. Spillway gradient:
- 17. Spillway surface material:
- 18. Material used for erosion protection of dam faces:

19	9. Surface area of reservoir behind d	rface area of reservoir behind dam (when water level at overflow pipe or spillway level):				
		Normal level	m			
		Low level	m			
		Flood level	m			
20	). Volume of water retained by dam	(when water level at overflow pipe	or spillway level):			
		Normal level	m			
		Low level	m			
		Flood level	m			
21	I. Describe in detail the junction bet	ween the shoulders and the dam: _				
_						
<b>D.2.2.</b> \	What material/materials is the dam m	ade from (or to be made of)?				
D.2.3. \	What are the design flow capacities o	f the spillway?				
	Details of any proposed or current mi	igation measures, including low flo				
	or dams for the creation of stormwat dam will be operated to allow for app					

- **D.2.6.** Supply accurate design drawings of the dam, including:
  - Profile / elevation showing embankment cross section, design of foundations / key, conduits and drainage, service outlet and flood spillway design, and erosion protection.
  - Location and design of any proposed mitigation measures, including low flow outlets / bypasses and fish passes.

### D.3 Dam Safety

**D.3.1** What is the potential hazard category for the dam in accordance with the NZSOLD Guidelines 2015?

	Ч	High potential impact structure	
		Medium potential impact structure	
		Low potential impact structure	
		Very low potential impact structure	
3.2	What	is the design life of the dam?	
		<del></del>	
3.3	What	maximum flood event is the dam designed to pass?	
3.3		that all dams should be able to pass a probable maximum flood (PMF) event)	
3.3	(note		
3.3	(note	that all dams should be able to pass a probable maximum flood (PMF) event)	
3.3	(note	that all dams should be able to pass a probable maximum flood (PMF) event) ated flow rate of design flood event:m³/s	
3.3	(note	that all dams should be able to pass a probable maximum flood (PMF) event) ated flow rate of design flood event:m³/s	

D.3.4	Will the p	ublic and/or stock be prevented from accessing the dam structure and its banks?
		Yes (please describe):
		No (detail why):
D.3.5	Will a Dan	n Safety Review, in accordance with the NZSOLD Guidelines (2015) be undertaken for the dam intervals?
		Yes (please describe, including frequency of review, or the circumstances when review will be initiated, and how the review will occur):
		No (detail why):
D.3.6	Has an En (2015)?	nergency Action Plan been prepared for the dam, in accordance with the NZSOLD Guidelines
	Ц	Yes (please attach a copy to the application
		No (detail why):

## D.4 Dam Operation and Management (applicable to dams with a risk greater than "low", as defined by NZSOLD)

Describe the operating regime of the dam on a separate page (or include an up-to-date copy of your operations and maintenance manual), including:

- Management of water levels.
- Management of discharges, including low flows/flow releases and flows over fish passes.
- If the dam will be used for water supply, demonstrate that the dam will provide sufficient storage to meet the projected demand, whilst providing for any proposed flow discharges.
- Maintenance and inspection of the dam embankment and spillways.
- Maintenance of reservoir including water quality control and removal of sediment and aquatic vegetation.

#### D.5 Dam Break Risk Assessment

**D.5.1** Please provide a risk assessment report on downstream impacts in the event of dam failure. This report should be prepared by a suitably qualified person, such as an engineer. For dams with a risk greater than "low", inundation maps should be supplied. Please ensure that the location of any dams or infrastructure is shown.

D.5.2	Do you p	ropose to hold public liability insurance for the dam in event of dam failure?
		Yes (please describe, including to what value the insurance is held for):
		No (please describe why not):
D.6	-	identified any fault zones, flood zones, landslip areas or other natural hazards that may impact structure (Refer to the ORC Natural Hazards database: Otago Natural Hazards Database .nz))?
	<b>1</b> Ye	s (please describe):
- -		
_		
	) No	

#### PART E: Assessment of Environmental Effects

Note: 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. These matters are listed in Form 1, with additional or specific matters relating to consents for damming listed below. An assessment of effects should be proportional to the scale and significance of the proposed activity and should relate to all the activities that have been applied for (e.g. water permits for damming and taking, discharge permits for discharges, land use consents for instream works and structures)

**E.1** Outline and describe the receiving environment that the assessment of effects is based on. Council advice can be found here: <a href="https://www.orc.govt.nz/media/9377/general-guidance-note-1-summary-of-legal-advice-obtained-for-consent-processing.pdf">https://www.orc.govt.nz/media/9377/general-guidance-note-1-summary-of-legal-advice-obtained-for-consent-processing.pdf</a>

#### E.2 Assess effects on surface and/or groundwater hydrology.

Yes (attached to application)

No (please outline reasons why this has not been provided in your application)

Some considerations:

- Effects to the natural flow regime e.g flat lining of flows, unnatural fluctuations, unnatural low flows
- Fluctuating lake levels and draw down rates for controlled lakes
- Hydrological interactions between the damming of surface water and groundwater hydrology

E.3 For instream dams (and off-line dams that may affect water bodies), provide an independent ecological assessment of the effects the damming will have on the water body and any connected water bodies including existing reservoirs. Yes (attached to application)

No (please outline reasons why an independent ecological assessment has not been undertaken in your application).

Some considerations:

- Consider the natural values identified for the water body(ies) in Schedule 1A of the RPW, however the assessment should not be limited to those values.
- Effects on aquatic life including invertebrates, native fish and sports fish with consideration of effects on spawning and juvenile rearing locations as a result of changes in flow process/sediment movement and food availability.
  - o Effects on fish passage including trout movement upstream from providing fish passage
  - o Effects on mahika kai (e.g. long-fin eels, waikōura)
  - The need for residual flows to maintain aquatic values downstream of the damming
  - The need for flushing flows to remove algal biomass build-up or sediment build up downstream of the dam
  - The effects of habitat loss (on terrestrial and aquatic habitat) from reservoir existence/creation.
- Effects on avian fauna e.g. removal of nesting river environment, creation/removal of pond/lake habitat.
- Any off-set measures proposed for loss of indigenous biological diversity.
- · Water quality effects including consideration of any contaminants within the dam reservoir
- Pest species management and the potential for the activity to increase the spread of weeds/pests
- Effects on the functioning and operation of any natural inland wetlands, Regionally Significant Wetlands and/or any regionally significant wetland values
- Specific effects during construction including to water quality.

## **E.4 For new off-line dams assess any effects on existing ecological values** e.g. existing terrestrial ecology within the inundation area.

#### E.5 Assess any effects on natural hazards including dam safety

Some considerations:

- Flooding of land upstream of the dam by the reservoir including property damage
- Flooding of land downstream of the dam from spillway/emergency management operation including property damage
- Flooding of land downstream as a result of a dam break and overall risk of dam break (fault lines and landslip risk, nature, age and condition of the dam structure) including property damage.
- Effects of sediment build-up upstream and behind the dam
- Erosion effects downstream of the dam including from discharges associated with the damming
- Effects to bank stability/land instability
- Effects during construction including potential flooding effects
- Consideration of property damage, effects on any existing lawful activity including existing structures and consented/permitted activities
- Consideration of climate change effects e.g. increased storm events

# E.6 Assess any physical effect on the locality, including any landscape, visual, natural character or amenity (e.g. recreation) effect

Yes (attached to application)

No (please outline reasons why this has not been provided)

## Some considerations:

- Specifically assess the effects that the change in the hydrology, ecology, landscape etc will have on the natural character, amenity, landscape values you identified in B.3.
- Policies 5.4.8 and 5.4.9 provide some guidance on what to consider when assessing natural character and amenity effects.
- Consider any outstanding natural features and landscapes.

# E.7 Assess any effect on ecosystems, including effects on plants or animals and any physical disturbance of habitats in the vicinity of the damming.

Yes (attached to application)

No (please outline reasons why this has not been provided)

#### E.8 Assess any effect of the damming activities on cultural values.

Yes (attached to application)

No (please outline reasons why this has not been provided)

#### Some considerations:

- Effects on local rūnaka/iwi and the stated cultural values as identified in B.3 and through consultation with local iwi
- Consideration of statutory acknowledgement areas
- Consider the need for a cultural impact assessment

#### E.9 Assess any effect on other water users or other human use values.

Yes (attached to application)

No (please outline reasons why this has not been provided)

#### Some considerations:

- What will the changes to the hydrology, ecology, water quality, natural hazard risk have on the following:
  - Recreational users and activities in and adjacent to the water bodies that will be affected (e.g. swimming, fishing, boating, game bird hunting)
  - o Permitted activity operations located upstream and downstream of the dam
  - Consented activities (e.g. surface water takes, groundwater takes, land use consents, discharges) located upstream and downstream of the dam
  - Public access will the damming activity restrict legal public access?
  - Heritage values of any site, building, place or area that could be affected by the damming (inundation, changes in operating levels, located within the dam break, at the site of the dam)
- Depending on the scale and nature of the proposal and the significance of the above values you may need to support your application with expert technical assessment e.g. from an amenity effects expert, heritage expert.
- Include any consultation with parties and the outcomes of that consultation. This will help to define the values and effects associated with the proposal.

#### E.10 Describe any positive effects.

Yes (attached to application)

No (please outline reasons why this has not been provided)

#### E.11 Outline and describe any mitigation you propose. This could include consideration of the following:

- Residual flows
- Flushing flows
- Fish screening on water intakes
- Measures for management where there are low flows
- Flow sharing measures
- Flood attenuation
- Wetland creation
- Provision of pass for migratory fish e.g. fish pass, diversions, climbing surfaces
- Fencing of reservoir and riparian planting
- Dam safety management

#### E.12 Outline any proposed off-set or compensation measures

E.13 Outline monitoring proposed to measure any effects of your proposed dam on the environment (e.g. flow monitoring, water quality and/or ecological monitoring, dam safety monitoring)							e.g. flow			
							•			
								,		

### PART F: Alternative Locations and Methods

	onmental value)?  No
	Yes (please detail why your chosen location is considered the best option for you)
ART G: S	Statutory Assessment
elevant s ⁄lanagem	urce Management Act requires your application to include an assessment of the proposed activity against the statutory documents. In this case, the Regional Plan: Water, proposed Regional Policy Statement and Iwite nent Plans are the most relevant documents. For larger applications, assessment against higher order docur be required.
nconsiste	unable to assess the application against the relevant statutory document or you believe your proposal is ent with the relevant policies and documents, it is recommended you seek professional planning assistance with your application.
olicy pro	e provide an assessment of your proposal against the following statutory documents. There may be other evisions that are relevant to your application and you should refer to the source document for any other is and policies that may need to be assessed. Potentially relevant objectives and policies are attached at the time.
Re	gional Plan: Water for Otago (RPW)
	rtially Operative Regional Policy Statement 2021 (PO-RPS) oposed Regional Policy Statement 2021 (pRPS)
	ational Policy Statement for Freshwater Management 2020 (NPS-FM 2020)
	ational Policy Statement for Renewable Electricity Generation 2011 (NPS-REG 2011)
	ational Environmental Standard for Freshwater Management 2020 (NES-FW 2020)
	ational Environmental Standard for Sources of Human Drinking Water 2007 (NES-HDW 2007)
	i Tahu ki Otago Natural Resource Management Plan 2005 (NRMP)
	r activities located south of the Clutha River/ Mata-Au, the Ngāi Tahu ki Murihiku Natural Resource and vironmental lwi Management Plan 2008 - The Cry of the People, Te Tangi a Tauira
ART H	Consultation
	outline any consultation undertaken with those persons/parties who may be interested in or potent
	ed by your proposal to dam water (e.g. other water users, Department of Conservation, Fish and G il, Iwi, Forest and Bird, Waka Kotahi). Please provide evidence of this consultation and summarise/high
	llues and issues of concern raised by any parties.
2 Planca	provide any written approvals to the activity using Council's written approval Form 8A: Ready to Apply

PART I: Is Your Application Complete?

I.1 In order to provide a complete application have you remembered to:

(a)	Fully complete this form and Form 1 (Resource Consent Application)	?
(b)	Paid your deposit or attached a cheque – see Form 1 for details	?
(c)	Include a detailed location / site plan?	?
(d)	Attached relevant photographs?	?
(e)	Enclosed a Record of Title less than 3 months old?	?
(f)	Attached any written approvals?	?
(g)	Assessed the activity against the relevant planning provisions	?
(h)	Attached any appropriate additional information?	?
	Including:	
	(i) An emergency action plan?	?
	(ii) The dam maintenance and operations manual?	?
	(iii) Ecological assessment	?
	(iv) AEE	?
(i)	Completed and attached any additional forms for associated resource consents?	
	(i) Form 3 (to divert water)	?
	(ii) Form 4 or 5 (to take surface water or groundwater)	?
	(iii) Form 7 (to discharge contaminants or water to water)	?
	(iv) Form 10A (to disturb a water body and to erect a structure within the bed of a water body)	?

## **APPENDIX 1: Planning Provisions for Damming Applications**

Provisions	Assessment
Regional Plan Water for Otago	
Objective 5.3.3 To protect the natural character of Otago's lakes and rivers and their margins from inappropriate subdivision, use or development	
Objective 5.3.4 To maintain or enhance the amenity values associated with Otago's lakes and rivers and their margins	
Policy 5.4.2 Avoid, remedy or mitigate adverse effects and flooding, erosion, land instability, sedimentation or property damage from the management of surface water, groundwater, beds and margins of lakes and rivers	
Policy 5.4.3 Avoid adverse effects on existing lawful uses and priorities	
Policy 5.4.5 recognise the Water Conservation (Kawarau) Order 1997 by preserving, as far as possible, the waters set out in Schedule 1 of the Water Conservation Order	

in their natural state, protecting the outstanding characteristics of waters set out in Schedule 2 of the Water Conservation Order, and sustaining the outstanding amenity and intrinsic values set out in both Schedules of this order	
Policy 5.4.6 legal public access to and along the margins of lakes and rivers will only be restricted where necessaryto protect the health or safety of people and communities, to ensure a level of security consistent with the purposes of a resource consent; or in other exceptional circumstances sufficient to justify the restriction notwithstanding the national importance of maintaining that access	
Policy 5.4.7 where existing public access to or along the margins of Otago's lakes or rivers is restricted, the provision or enhancement of alternative access may be required with respect to the restriction of existing legal public access, and will be promoted with respect to the restriction of informal access arrangements	
Policy 5.4.8 requires regard to topography, natural flow characteristics or water levels, water colour and clarity, ecology, the extent of use or development within the catchment, when considering adverse effects on natural character of lakes, rivers and their margins	
Policy 5.4.9 requires regard to aesthetic values and recreational opportunities provided by a lake or river, or its margins when considering adverse effects on amenity values	
Policy 5.4.10 requires regard to any heritage values of any site, building, place or area for any activity involving surface water or the bed or margin of any lake or river	
Policy 6.5.4 In regulating the management of flows, other than in association with a small dam or any dam designed to contain contaminants, to have regard to provision for:  a) The requirements of:	
<ul> <li>i. Natural and human use values identified in Schedule 1;</li> <li>ii. The natural character of the water body; and</li> <li>iii. Amenity values supported by the water body; and</li> <li>b) The periodic release of sufficient quantities of water at appropriate flow rates, where necessary to remove excess algal growth or an accumulation of sediment downstream of the dam; and</li> </ul>	
c) The existing needs of consumptive users of water, while taking into account, where appropriate, the extent to which the water body has been modified by resource use and development.	
Policy 6.6.2 To promote the storage of water at periods of high water availability through the collection and storage of rainwater; and the use of reservoirs for holding water that has been taken from any lake or river	
Policy 6.6A.4 – <i>Policy relating to the Waitaki catchment only</i> - In considering whether to grant or refuse consent to take, divert, dam or use water allocated for agricultural and horticultural activities, the consent authority will have regard to the extent to which exercise of the consent could result in the water quality objectives in this Plan not being achieved.	
Policy 8.4.1 to give priority to avoiding changes in the nature of flow and sediment processes in those water bodies, where those changes will cause adverse effects on the stability and function of existing structures; associated erosion, sedimentation or land instability; or any reduction in the flood carrying capacity of any lake or river	
Policy 8.5.1 provides for fish migration through structures in watercourses	
Policy 8.5.3 to require the holder of any resource consent for a dam on the bed of a lake or river to remedy any adverse effects attributable to the failure or overtopping of the dam structure, either during or after its construction	
Policy 8.6.1 to have regard to any adverse effect on the spawning requirements of indigenous fauna, and trout or salmon; bed and bank stability; water quality; amenity values caused by any reduction in water clarity; and downstream users	
Policies 10.4.1-10.4.2A relate to regionally significant wetland values, the avoidance of adverse effects on these values and the need for financial contributions.	
Partially Operative Regional Policy Statement 2021	
<ul> <li>achieve integrated resource management (Policy 1.1.1)</li> <li>provide for economic wellbeing (Policy 1.1.2)</li> </ul>	

provide for social and cultural wellbeing and health and safety (Policy 1.1.3) taking the principles of Te Tiriti o Waitangi into account (Policy 2.1.2) managing the natural environment to support Kāi Tahu wellbeing (Policy 2.2.1) recognising and protecting important sites and values of cultural significance to Kāi Tahu (Policy 2.2.2) promote sustainable use of Māori land (Policy 2.2.4) managing for freshwater values including Maintain or enhance ecosystem health in all Otago aquifers, and rivers, lakes, wetlands, and their margins Maintain or enhance the range and extent of habitats provided by fresh water, including the habitat of trout and salmon Recognise and provide for the migratory patterns of freshwater species, unless detrimental to indigenous biological diversity Avoid aquifer compaction and seawater intrusion in aquifers 0 Maintain good water quality, including in the coastal marine area, or enhance it where it has been degraded Maintain or enhance coastal values 0 Maintain or enhance the natural functioning of rivers, lakes, and wetlands, their riparian margins, and aquifers Maintain or enhance the quality and reliability of existing drinking and stock water supplies Recognise and provide for important recreation values Maintain or enhance the amenity and landscape values of rivers, lakes, and wetlands Control the adverse effects of pest species, prevent their introduction and reduce their spread Avoid, remedy or mitigate the adverse effects of natural hazards, including flooding and erosion Avoid, remedy, or mitigate adverse effects on existing infrastructure that is reliant on fresh water (Policy 3.1.1) manage the beds of rivers, lakes, wetlands, their margins, and riparian vegetation to achieve all of the following Maintain or enhance their natural functioning Maintain good water quality, or enhance it where it has been Maintain or enhance ecosystem health and indigenous biological Maintain or enhance natural character Maintain or enhance amenity values Control the adverse effects of pest species, prevent their introduction and reduce their spread Avoid, remedy or mitigate the adverse effects of natural hazards, including flooding and erosion Maintain or enhance bank stability (3.1.2) identify and protect outstanding freshwater bodies (Policy 3.2.13 & 3.2.14) identify and protect the significant values of wetlands (Policy 3.2.15 & 3.2.16) identify and manage natural hazards that may adversely affect Otago's communities (Policy 4.1.1, 4.1.4 to 4.1.6) assess the consequences of natural hazard events (Policy 4.1.3) reduce existing natural hazard risk to people and communities (Policy 4.1.7) where natural hazard risk to people and communities is uncertain or unknown, but potentially significant or irreversible, apply a precautionary approach to identifying, assessing and managing that risk (Policy 4.1.8) avoid, remedy or mitigate adverse effects on natural or modified features and systems, which contribute to mitigating the effects of both natural hazards and climate change (Policy 4.1.9) give preference to risk management approaches that reduce the need for hard protection structures or similar engineering interventions, and provide for hard protection structures only when all of the following apply: Those measures are essential to reduce risk to a level the community is able to tolerate; There are no reasonable alternatives: 0 It would not result in an increase in risk to people and

	communities, including displacement of risk off-site;	
	<ul> <li>The adverse effects can be adequately managed;</li> </ul>	
	<ul> <li>The mitigation is viable in the reasonably foreseeable long term</li> </ul>	
	(Policy 4.1.10)	
•	enable the location of hard protection structures or similar engineering	
	interventions on public land only when either or both of the following	
	apply:	
	<ul> <li>There is significant public or environmental benefit in doing so;</li> </ul>	
	<ul> <li>The work relates to the functioning ability of a lifeline utility, or a</li> </ul>	
	facility for essential or emergency services (Policy 4.1.11)	
•	managing hazard mitigation measures, lifeline utilities, and essential and	
	emergency services (Policy 4.1.12)	
	managing infrastructure activities	
•	managing infrastructure activities  o Maintain or enhance the health and safety of the community	
	Reduce adverse effects of those activities, including cumulative adverse effects on	
	natural and physical resources  O Support economic, social and community activities	
	<ul> <li>Support economic, social and community activities</li> <li>Improve efficiency of use of natural resources</li> </ul>	
	o Protect infrastructure corridors for infrastructure needs, now and for the future	
	o Increase the ability of communities to respond and adapt to	
	emergencies, and disruptive or natural hazard events	
	<ul> <li>Protect the functioning of lifeline utilities and essential or emergency</li> </ul>	
	services (Policy 4.3.1)	
•	recognising national and regional significance of infrastructure, managing	
	adverse effects of infrastructure that has national or regional significance	
	and protecting infrastructure of national or regional significance (Policy	
	4.3.2 to 4.3.4)	
	,	
	the state of the s	
•	using existing renewable electricity generation structures and facilities,	
	promoting small scale renewable electricity generation, protecting the	
	capacity of renewable electricity generation, enabling more efficient	
	transport of energy and protecting electricity generation infrastructure	
	(Policy 4.4.2 -4.4.6)	
•	maintaining and enhancing public access (Policy 5.1.1)	
•	recognising heritage themes and managing historic heritage values (Policy	
	5.2.1 and 5.2.3)	
	·	
_	apply an adaptive management approach to social remade as with	
•	apply an adaptive management approach, to avoid, remedy or mitigate	
	actual and potential adverse effects that might arise and that can be	
	remedied before they become irreversible (Policy 5.4.2)	
•	apply a precautionary approach to activities where adverse effects may be	
	uncertain, not able to be determined, or poorly understood but are	
	potentially significant (Policy 4.4.3)	
•	consider the offsetting of indigenous biological diversity, when:	
	o Adverse effects of activities cannot be avoided, remedied or	
	mitigated;	
	<ul> <li>The offset achieves no net loss and preferably a net gain in</li> </ul>	
	indigenous biological diversity;	
	<ul> <li>The offset ensures there is no loss of rare or vulnerable species;</li> </ul>	
	The offset is undertaken close to the location of development,	
	where this will result in the best ecological outcome;	
	The offset is applied so that the ecological values being achieved	
	are the same or similar to those being lost;	
	The positive ecological outcomes of the offset last at least as long     set the impact of the positivity.	
	as the impact of the activity	
L		
Proposo	d Otago Regional Policy Statement (P-ORPS) 2021	

MW–O1 – Principles of Te Tiriti o Waitangi	
MW-P2 - Treaty principles	
MW–P3 – Supporting Kāi Tahu well-being	
IM-O2 – Ki uta ki tai	
IM-P2 – Decision priorities Unless expressly stated otherwise, all decision making	
under this RPS shall:	
1. first, secure the long-term life-supporting capacity and mauri of the natural	
environment,	
2. secondly, promote the health needs of people, and	
3. thirdly, safeguard the ability of people and communities to provide for their social, economic, and cultural well-being, now and in the future.	
social, economic, and cultural wen-being, now and in the future.	
IM-P4 – Setting a strategic approach to ecosystem health Healthy ecosystems and	
ecosystem services are achieved through a planning framework that:	
(1) protects their intrinsic values,	
(2) takes a long-term strategic approach that recognises changing environments,	
(3) recognises and provides for ecosystem complexity and interconnections, and	
(4) anticipates, or responds swiftly to, changes in activities, pressures, and trends.	
IM-P5 - Managing environmental interconnections	
Coordinate the management of interconnected natural and physical resources by recognising and providing for:	
(1) situations where the value and function of a natural or physical resource	
extends beyond the immediate, or directly adjacent, area of interest,	
(2) the effects of activities on a natural or physical resource as a whole when that	
resource is managed as sub-units, and	
(3) the impacts of management of one natural or physical resource on the values of	
another, or on the environment.	
IM-P6 - Acting on best available information. Avoid unreasonable delays in	
decision-making processes by using the best information available at the time,	
including but not limited to mātauraka Māori, local knowledge, and reliable partial	
data.	
IM—P14 – Human impact Preserve opportunities for future generations by:  (1) identifying limits to both growth and adverse effects of human activities bound	
(1) identifying limits to both growth and adverse effects of human activities beyond which the environment will be degraded,	
(2) requiring that activities are established in places, and carried out in ways, that	
are within those limits and are compatible with the natural capabilities and	
capacities of the resources they rely on, and	
(3) regularly assessing and adjusting limits and thresholds for activities over time in	
light of the actual and potential environmental impacts	
IM-P15 - Precautionary approach Adopt a precautionary approach towards	
proposed activities whose <i>effects</i> are uncertain, unknown or little understood, but	
could be significantly adverse, particularly where the areas and values within Otago	
have not been identified in plans as required by this RPS.	
LF-WAI-O1 - Te Mana o te Wai The mauri of Otago's water bodies and their health	
and well-being is protected, and restored where it is <i>degraded</i> , and the management	
of <i>land</i> and <i>water</i> recognises and reflects that:  1. <i>water</i> is the foundation and source of all life – na te wai ko te hauora o ngā	
mea katoa,	
<ol> <li>there is an integral kinship relationship between water and Kāi Tahu whānui,</li> </ol>	
and this relationship endures through time, connecting past, present and	
future,	
3. each water body has a unique whakapapa and characteristics,	
4. water and land have a connectedness that supports and perpetuates life, and	
5. Kāi Tahu exercise rakatirataka, manaakitaka and their <i>kaitiakitaka</i> duty of	
care and attention over wai and all the life it supports.	

## **LF-WAI-P1 - Prioritisation** In all management of fresh water in Otago, prioritise: (1) first, the health and well-being of water bodies and freshwater ecosystems, te hauora te wai and te hauora o te taiao, and the exercise of mana whenua to uphold these. (2) second, the health and well-being needs of people, te hauora o te tangata; interacting with water through ingestion (such as drinking water and consuming harvested resources) and immersive activities (such as harvesting resources and bathing), and (3) third, the ability of people and communities to provide for their social, economic, and cultural well-being, now and in the future. F-WAI-P2 - Mana whakahaere Recognise and give practical effect to Kāi Tahu rakatirataka in respect of fresh water by: facilitating partnership with, and the active involvement of, mana whenua in freshwater management and decision-making processes, sustaining the environmental, social, cultural and economic relationships of Kāi Tahu with water bodies, providing for a range of customary uses, including mahika kai, specific to each water body, and (4) incorporating mātauraka into decision making, management and monitoring processes. **LF-WAI-P3 – Integrated management/ki uta ki tai** Manage the use of *freshwater* and land in accordance with tikanga and kawa, using an integrated approach that: recognises and sustains the connections and interactions between water bodies (large and small, surface and ground, fresh and coastal, permanently flowing, intermittent and ephemeral), 2. sustains and, wherever possible, restores the connections and interactions between land and water, from the mountains to the sea, 3. sustains and, wherever possible, restores the habitats of mahika kai and indigenous species, including taoka species associated with the water body, 4. manages the effects of the use and development of land to maintain or enhance the health and well-being of freshwater and coastal water, 5. encourages the coordination and sequencing of regional or urban growth to ensure it is sustainable, has regard to foreseeable climate change risks, and 6. has regard to cumulative effects and the need to apply a precautionary 7. approach where there is limited available information or uncertainty about potential adverse effects. LF-WAI-P4 - Giving effect to Te Mana o te Wai All persons exercising functions and powers under this regional policy statement and all persons who use, develop or protect resources to which this regional policy statement applies must recognise that LF-WAI-O1, LF-WAI-P1, LF-WAI-P2 and LF-WAI-P3 are fundamental to upholding *Te Mana o te Wai*, and must be given effect to when making decisions affecting freshwater, including when interpreting and applying the provisions of the LF chapter. Please read the proposed Regional Policy Statement and confirm which of the following 5 FMU's the damming is located in and confirm that the proposal supports the vision for this FMU https://www.orc.govt.nz/plans-policies-reports/regional-plans-andpolicies/otago-regional-policy-statements/proposed-otago-regional-policy-statement-2021 LF-VM-O2 - Clutha Mata-au FMU vision In the Clutha Mata-au FMU: management of the FMU recognises that: (a) the Clutha River / Mata-au is a single connected system ki uta ki tai, and the source of the wai is pure, coming directly from Tawhirimatea to the top of the mauka and into the awa, (2) freshwater is managed in accordance with the LF–WAI objectives and policies, (3) the ongoing relationship of Kāi Tahu with wāhi tūpuna is sustained, water bodies support thriving mahika kai and Kāi Tahu whānui have access to (4) mahika kai. indigenous species migrate easily and as naturally as possible along and within

the river system,

- (6) the national significance of the Clutha hydro-electricity generation scheme is recognised.
- (7) in addition to (1) to (6) above:
  - (a) in the Upper Lakes rohe, the high quality waters of the lakes and their tributaries are protected, recognising the significance of the purity of these waters to Kāi Tahu and to the wider community,
  - (b) in the Dunstan, Manuherekia and Roxburgh rohe:
    - flows in water bodies sustain and, wherever possible, restore the natural form and function of main stems and tributaries to support Kāi Tahu values and practices, and
    - (ii) innovative and sustainable *land* and *water* management practices support food production in the area and reduce discharges of nutrients and other *contaminants* to *water* bodies so that they are safe for human contact, and
    - (iii) sustainable abstraction occurs from main stems or *groundwater* in preference to tributaries,
  - (c) in the Lower Clutha rohe:
    - there is no further modification of the shape and behaviour of the water bodies and opportunities to restore the natural form and function of water bodies are promoted wherever possible,
    - the ecosystem connections between freshwater, wetlands and the coastal environment are preserved and, wherever possible, restored.
    - (iii) land management practices reduce discharges of nutrients and other contaminants to water bodies so that they are safe for human contact, and
    - (iv) there are no direct discharges of wastewater to water bodies, and
- (8) the outcomes sought in (7) are to be achieved within the following timeframes:
  - (a) by 2030 in the Upper Lakes rohe,
  - (b) by 2045 in the Dunstan, Roxburgh and Lower Clutha rohe, and
  - (c) by 2050 in the Manuherekia rohe.

#### LF-VM-O3 - North Otago FMU vision

By 2050 in the North Otago FMU:

- (1) fresh water is managed in accordance with the LF–WAI objectives and policies, while recognising that the Waitaki River is influenced in part by catchment areas within the Canterbury region,
- (2) the ongoing relationship of Kāi Tahu with wāhi tūpuna is sustained and Kāi Tahu maintain their connection with and use of the water bodies,
- (3) healthy riparian margins, wetlands, estuaries and lagoons support thriving mahika kai, indigenous habitats and downstream coastal ecosystems,
- (4) indigenous species can migrate easily and as naturally as possible to and from the coastal environment,
- (5) land management practices reduce discharges of nutrients and other contaminants to water bodies so that they are safe for human contact, and
- (6) innovative and sustainable land and water management practices support food production in the area and improve **resilience to the effects of climate change.**

#### LF-VM-O4 - Taieri FMU vision

By 2050 in the Taieri FMU:

- (1) fresh water is managed in accordance with the LF-WAI objectives and policies,
- (2) the ongoing relationship of Kāi Tahu with wāhi tūpuna is sustained,
- (3) healthy wetlands are restored in the upper and lower catchment wetland complexes, including the Waipori/Waihola Wetlands, Tunaheketaka/Lake Taieri, scroll plain, and tussock areas,
- (4) the gravel bed of the lower Taieri is restored and sedimentation of the

## Waipori/Waihola complex is reduced (5) creative ecological approaches contribute to reduced occurrence of didymo, (6) water bodies support healthy populations of galaxiid species, (7) there are no direct discharges of wastewater to water bodies, and (8) innovative and sustainable land and water management practices support food production in the area and improve resilience to the effects of climate change. LF-VM-O5 - Dunedin & Coast FMU vision By 2040 in the Dunedin & Coast FMU: (1) fresh water is managed in accordance with the LF-WAI objectives and policies, (2) the ongoing relationship of Kāi Tahu with wāhi tūpuna is sustained, (3) healthy estuaries, lagoons and coastal waters support thriving mahika kai and downstream coastal ecosystems, and indigenous species can migrate easily and as naturally as possible to and from these areas, (4) there is no further modification of the shape and behaviour of the water bodies and opportunities to restore the natural form and function of water bodies are promoted wherever possible, and (5) discharges of contaminants from urban environments are reduced so that water bodies are safe for human contact. LF-VM-O6 - Catlins FMU vision By 2030 in the Catlins FMU: (1) fresh water is managed in accordance with the LF-WAI objectives and policies, (2) the ongoing relationship of Kāi Tahu with wāhi tūpuna is sustained, (3) water bodies support thriving mahika kai and access of Kāi Tahu whānui to mahika kai, (4) the high degree of naturalness and ecosystem connections between the forests, freshwater and coastal environment are preserved, (5) water bodies and their catchment areas support the health and well-being of coastal water, ecosystems and indigenous species, including downstream kaimoana, and (6) healthy, clear and clean water supports opportunities for recreation and sustainable food production for future generations. LF-VM-P5 - Freshwater Management Units (FMUs) and rohe Otago's freshwater resources are managed through the following freshwater management units or rohe which are shown on MAP1: Table 3 - Freshwater Management Units and rohe Freshwater Management Unit Rohe Clutha/Mata-au **Upper Lakes** Dunstan Manuherekia Roxburgh Lower Clutha Taieri n/a North Otago n/a **Dunedin & Coast** n/a n/a Catlins LF-VM-O7 - Integrated management Land and water management apply the ethic of ki uta ki tai and are managed as integrated natural resources, recognising the connections and interactions between freshwater, land and the coastal environment, and between surface water, groundwater and coastal water. LF-FW-O8 - Freshwater In Otago's water bodies and their catchments: the health of the wai supports the health of the people and thriving mahika

kai. (2) water flow is continuous throughout the whole system, the interconnection of *freshwater* (including *groundwater*) and *coastal waters* (3) is recognised, native fish can migrate easily and as naturally as possible and taoka species (4) and their habitats are protected, and the significant and outstanding values of Otago's outstanding water bodies are identified and protected. **LF–FW–O9 – Natural wetlands** Otago's natural wetlands are protected or restored so (1) mahika kai and other mana whenua values are sustained and enhanced now and for future generations, (2) there is no decrease in the range and diversity of indigenous ecosystem types and habitats in natural wetlands, there is no reduction in their ecosystem health, hydrological functioning, amenity values, extent or water quality, and if degraded they are improved, (4) their flood attenuation capacity is maintained. **LF–FW–O10 – Natural character** The natural character of *wetlands, lakes* and *rivers* and their margins is preserved and protected from inappropriate subdivision, use and development. **LF–FW–P7** – *Freshwater Environmental outcomes, attribute* states (including target attribute states) and limits ensure that:

- the health and well-being of water bodies is maintained or, if degraded, improved,
- (2) the habitats of indigenous species associated with *water bodies* are protected, including by providing for fish passage,
- (3) specified rivers and lakes are suitable for primary contact within the following timeframes:
  - (a) by 2030, 90% of rivers and 98% of lakes, and
  - (b) by 2040, 95% of rivers and 100% of lakes, and
- (4) mahika kai and drinking water are safe for human consumption,
- (5) existing over-allocation is phased out and future over-allocation is avoided, and
- (6) freshwater is allocated within environmental limits and used efficiently.

#### **LF–FW–P9 – Protecting** *natural wetlands* Protect *natural wetlands* by:

- (1) avoiding a reduction in their values or extent unless:
  - (a) the loss of values or extent arises from:
    - the customary harvest of food or resources undertaken in accordance with tikaka Māori.
    - (ii) restoration activities,
    - (iii) scientific research,
    - (iv) the sustainable harvest of sphagnum moss,
    - (v) the construction or maintenance of wetland utility structures,
    - (vi) the maintenance of operation of specific infrastructure, or other infrastructure,
    - (vii) natural hazard works, or
  - (b) the Regional Council is satisfied that:
    - the activity is necessary for the construction or upgrade of specified infrastructure,
    - (ii) the *specified infrastructure* will provide significant national or regional benefits,
    - (iii) there is a functional need for the specified infrastructure in that location.
    - the effects of the activity on indigenous biodiversity are managed by applying either ECO-P3 or ECO-P6 (whichever is applicable), and

- (v) the other *effects* of the activity (excluding those managed under (1)(b)(iv)) are managed by applying the *effects management hierarchy*, and
- (2) not granting resource consents for activities under (1)(b) unless the Regional Council is satisfied that:
  - (a) the application demonstrates how each step of the effects management hierarchies in (1)(b)(iv) and (1)(b)(v) will be applied to the *loss of values* or extent of the *natural wetland*, and
  - (b) any consent is granted subject to conditions that apply the effects management hierarchies in (1)(b)(iv) and (1)(b)(v).

#### LF-FW-P10 - Restoring natural wetlands Improve the ecosystem health,

hydrological functioning, water quality and extent of natural wetlands that have been degraded or lost by requiring, where possible::

- (1) an increase in the extent and quality of habitat for indigenous species,
- (2) the restoration of hydrological processes,
- (3) control of pest species and vegetation clearance, and
- (4) the exclusion of stock.

## **LF–FW–P11 – Identifying** outstanding water bodies Otago's outstanding water bodies are:

- the Kawarau River and tributaries described in the Water Conservation (Kawarau) Order 1997,
- Lake Wanaka and the outflow and tributaries described in the Lake Wanaka Preservation Act 1973,
- (3) any water bodies identified as being wholly or partly within an outstanding natural feature or landscape in accordance with NFL—P1, and
- (4) any other water bodies identified in accordance with APP1.

# **LF–FW–P12 – Protecting** *outstanding water bodies*The significant and outstanding values of *outstanding water bodies* are:

- (1) identified in the relevant *regional* and *district plans*, and
- (2) protected by avoiding adverse effects on those values.

# **LF–FW–P13 – Preserving natural character** Preserve the natural character of *lakes* and *rivers* and their *beds* and margins by:

- (1) avoiding the loss of values or extent of a river, unless:
  - (a) there is a *functional need* for the activity in that location, and
  - (b) the *effects* of the activity are managed by applying:
    - (i) for effects on indigenous biodiversity, either ECO-P3 or ECO-P6 (whichever is applicable), and
    - (ii) for other effects, the effects management hierarchy,
- (2) not granting resource consent for activities in (1) unless Otago Regional Council is satisfied that:
  - (a) the application demonstrates how each step of the effects management hierarchies in (1)(b) will be applied to the *loss of values* or extent of the river, and
  - (b) any consent is granted subject to conditions that apply the effects management hierarchies in (1)(b),
- (3) establishing environmental flow and level regimes and water quality standards that support the health and well-being of the water body,
- (4) wherever possible, sustaining the form and function of a water body that reflects its natural behaviours,
- (5) recognising and implementing the restrictions in Water Conservation Orders,
- (6) preventing the impounding or control of the level of Lake Wanaka,
- (7) preventing modification that would reduce the braided character of a *river*, and
- (8) controlling the *use* of *water* and *land* that would adversely affect the natural character of the *water body*.

#### LF-LS-O11 - Land and soil

The life-supporting capacity of Otago's soil resources is safeguarded and the availability and productive capacity of highly productive land for *primary production* is maintained now and for future generations.

#### LF-LS-O12 - Use of land

The use of *land* in Otago maintains soil quality and contributes to achieving *environmental outcomes* for *freshwater*.

#### LF-LS-P16 - Integrated management

Recognise that maintaining soil quality requires the integrated management of *land* and *freshwater* resources including the interconnections between soil health, vegetative cover and *water* quality and quantity.

#### LF-LS-P17 - Soil values

Maintain the mauri, health and productive potential of soils by managing the use and development of *land* in a way that is suited to the natural soil characteristics and that sustains healthy:

- (1) soil biological activity and biodiversity,
- (2) soil structure, and
- (3) soil fertility.

**EIT-INF-O4 – Provision of** *infrastructure* Effective, efficient and resilient *infrastructure* enables the people and communities of Otago to provide for their social and cultural well-being, their health and safety and supports sustainable economic development and growth within the region within environmental limits.

**EIT–INF–P13 – Locating and managing effects of** *infrastructure* When providing for new *infrastructure* outside the coastal environment:

- (1) avoid, as the first priority, locating *infrastructure* in all of the following:
  - (a) significant natural areas,
  - (b) outstanding natural features and landscapes,
  - (c) natural wetlands,
  - (d) outstanding water bodies,
  - (e) areas of high or outstanding natural character,
  - (f) areas or places of significant or outstanding historic heritage,
  - (g wāhi tapu, wāhi taoka, and areas with protected customary rights, and
  - (h) areas of high recreational and high amenity value, and
- (2) if it is not possible to avoid locating in the areas listed in (1) above because of the functional or operational needs of the infrastructure manage adverse effects as follows:
  - (a) for nationally or regionally significant infrastructure:
    - (i) in significant natural areas, in accordance with ECO-P4,
    - ii) in natural wetlands, in accordance with the relevant provisions in the NESF,
    - (iii) in outstanding water bodies, in accordance with LF-P12,
    - (iv) in other areas listed in EIT–INF–P13 (1) above, minimise the adverse effects of the infrastructure on the values that contribute to the area's importance, and
  - (b) for all *infrastructure* that is not *nationally* or *regionally significant*, avoid adverse *effects* on the values that contribute to the area's outstanding nature or significance.

**EIT–INF–P14 – Decision-making considerations** When considering proposals to develop or upgrade *infrastructure*:

- require consideration of alternative sites, methods and designs if adverse effects are potentially significant or irreversible, and
- (2) utilise the opportunity of substantial upgrades of *infrastructure* to reduce adverse *effects* that result from the existing *infrastructure*, including on *sensitive activities*.

**HAZ–NH–O1** – *Natural hazards* Levels of *risk* to people, communities and property from *natural hazards* within Otago do not exceed a tolerable level.

**HAZ–NH–O2** – *Adaption* Otago's people, property and communities are prepared for and able to adapt to the *effects* of natural hazards, including *climate change*.

**HAZ–NH–P2** – *Risk* assessments Assess the level of *natural hazard risk* by determining a range of natural hazard event scenarios and their potential consequences in accordance with the criteria set out within APP6.

**HAZ–NH–P3 – New activities** Once the level of *natural hazard risk* associated with an activity has been determined in accordance with HAZ–NH–P2, manage new activities to achieve the following outcomes:

- (1) when the natural hazard risk is significant, the activity is avoided,
- (2) when the *natural hazard risk* is tolerable, manage the level of *risk* so that it does not become significant, and
- (3) when the *natural hazard risk* is acceptable, maintain the level of *risk*.

#### **HAZ-NH-P4 – Existing activities** Reduce existing *natural hazard risk* by:

- (1) encouraging activities that reduce *risk*, or reduce community vulnerability,
- (2) restricting activities that increase risk, or increase community vulnerability,
- (3) managing existing land uses within areas of significant risk to people and communities,
- (4) encouraging design that facilitates:
  - (a) recovery from natural hazard events, or
  - (b) relocation to areas of acceptable risk, or
  - (c) reduction of risk,
- (5) relocating lifeline utilities, and facilities for essential and emergency services, away from areas of significant risk, where appropriate and practicable, and
- (6) enabling development, upgrade, maintenance and operation of lifeline utilities and facilities for essential and emergency services.

**HAZ-NH-P5** – **Precautionary approach to** *natural hazard risk* Where the *natural hazard risk*, either individually or cumulatively, is uncertain or unknown, but potentially significant or irreversible, apply a precautionary approach to identifying, assessing and managing that *risk* by adopting an avoidance or adaptive management response to diminish the risk and uncertainty.

#### HAZ-NH-P6 - Protecting features and systems that provide hazard mitigation

Protect natural or modified features and systems that contribute to mitigating the effects of natural hazards and climate change.

**HAZ–NH–P7 – Mitigating** *natural hazards* Prioritise *risk* management approaches that reduce the need for *hard protection structures* or similar engineering interventions, and provide for *hard protection structures* only when:

- hard protection structures are essential to manage risk to a level the community
  is able to tolerate,
- (2) there are no reasonable alternatives that result in reducing the risk exposure,
- (3) hard protection structures would not result in an increase in risk to people, communities and property, including displacement of risk off-site,
- (4) the adverse effects of the hard protection structures can be adequately managed, and
- (5) the mitigation is viable in the reasonably foreseeable long term or provides time for future adaptation methods to be implemented, or
- (6) the *hard protection structure* protects a *lifeline utility*, or a facility for essential or emergency services.

**HAZ–NH–P9 – Protection of hazard mitigation measures** Protect the *functional needs* of hazard mitigation measures, *lifeline utilities*, and essential or emergency services, including by:

- (1) avoiding significant adverse effects on those measures, utilities or services,
- (2) avoiding, and only where avoidance is not practicable, remedying or mitigating

	other adverse effects on those measures, utilities or services,	
(3)	maintaining access to those measures, utilities or services for maintenance and	
(4)	operational purposes, and	
(4)	restricting the establishment of other activities that may result in reverse sensitivity <i>effects</i> on those measures, utilities or services,	
НΔ7	Z-NH-P11 – Kaitiaki decision making Recognise and provide for the role of Kāi	
	u as kaitiaki over <i>wāhi tūpuna</i> , Māori reserves and freehold land that is	
	reptible to natural hazards by involving mana whenua in decision making and	
	nagement processes.	
	- O	
Kai	Tahu ki Otago Natural Resource Management Plan 2005 (NRMP)	
Cha	pter 5.3 Wai Maori	
•	To require a Cultural Impact Assessment for all proposals to dam	
•	To identify in conjunction with Local Government Agencies the location of all	
	existing dams, new dams and water storage in the region, together with the	
	level of river flow intercepted and the cumulative effect of interception on Käi	
	Tahu ki Otago cultural values	
	pter 5.8 Coastal Environment	
•	To require all hydro dam proposals include a complete evaluation of the effects	
Class	of sediment trapping on coastal stability and water quality	
<u>Cha</u>	pter 9.2 Wai Maori in the Taieri catchment  To require that a Cultural Impact Assessment is undertaken for any new dams or	
•	structures in the Taieri Catchments	
•	To require any new or existing dam consents to provide a regular flushing flow	
•	To discourage any further cross mixing of water.	
•	To promote the re-establishment of Lake Taieri as a mahika kai	
•	To require structures in the Taieri Catchments do not impede or obstruct flows,	
	or fish migration	
Cha	pter 10.2 Wai Maori Issues in the Clutha/Mata-Au catchment	
•	To oppose the creation of new dams within this Catchment.	
•	To require gradual rather than instantaneous ramping to control fluctuations in river flow.	
•	To require flow regimes that mimic natural flows.	
•	To require effects associated with dam management (e.g. flow issues, changes	
	to waterways upstream downstream, habitat changes, fish passage, inundation	
	of values habitats, health and safety issues, siltation concerns, erosion) are	
	addressed. Where the scale of effects is such that it cannot be addressed to the	
	satisfaction of Kä Papatipu Rünaka and depending on the legal status of the dam Kä Papatipu Rünaka may advocate for either the removal of existing dams or	
	decline consent to dam	
•	To discourage activities that increases the silt loading in waterways or reaches of	
	waterways.	
•	To encourage the preparation of a sediment management strategy for the	
	Clutha/Mata-au that describes patterns of deposition, movement, removal and	
	flushing of sediment within the Catchment. Sediment must be managed on a	
	Catchment basis and must be able to move through the system from the	
	headwaters to replenish coastal habitats that are highly valued by Kä Papatipu	
	Rünaka. Ad-hoc proposals for sediment removal, gravel takes, engineering river	
	reaches may not be supported if Kä Papatipu Rünaka cannot see how they are part of a sediment management strategy.	
•	To require Contact Energy and the Otago Regional Council to agree on flow	
	levels at which the flushing of sediment is permitted in conjunction with Kä	
	Papatipu Rünaka.	
•	To discourage any inappropriate flushing of sediment at times of low flow or	
•	where the impacts are not of a temporary nature.  To require native fish ingress and egress past all dams and structures.	
	i Tahu ki Murihiku Natural Resource and Environmental Iwi Management Plan	2008 - The Cry of the People. Te Tangi a
Tau		The same and a copies, the range a
Sect	ion 3.4 – Takitimu me ona uri – High Country and Foothills includes the upper	
	renstown/ Wanaka catchment including lakes and mountains between	
	akatipu-Waitai (Lake McKerrow) and extends across to the eastern boundary of	
the	Matau (Clutha) River	

## Section 3.4.10 Plant Pests Policy 1 Ensure protection and enhancement of the mauri or life supporting capacity of all high country and foothill waterways Policy 2 Advocate that all management decisions shall take into account the protection and survival of indigenous species of flora and fauna (rare and not rare, and including taonga species contained in the Ngāi Tahu Claims Settlement Act 1998) in their natural habitats and ecosystems. Section 3.4.12 Mahinga kai Policy 2 Advocate for timely and appropriate consultation with Ngāi Tahu ki Murihiku with respect to areas that are considered particularly significant in terms of mahinga kai. All endeavours should be taken to protect areas and avoid inappropriate use and development. Furthermore management plans should recognise for taonga species as listed in the Ngāi Tahu Claims Settlement Act 1998 and all other species considered taonga by Ngāi Tahu ki Murihiku Policy 4 Promote the protection, restoration and enhancement of indigenous biodiversity Policy 6 Maintain uninhibited fish passage within any waterway linking the high country lakes and rivers to the coast. Policy 7 Avoid compromising native aquatic species by building dams, culverts and weirs or through any other water abstraction methods Section 3.5 Te rā a Takitimu – Southland Plains including the Mata-Au River catchment Section 3.5.10 General Water Policy Policy 2 Work with local authorities and other statutory agencies involved in freshwater management to ensure that cultural values and perspectives associated with freshwater management are refl ected in statutory water plans, best practice guidelines and strategies, and in resource consent processes for activities involving water. Policy 3 Protect and enhance the mauri, or life supporting capacity, of freshwater resources throughout Murihiku. Policy 4 Manage our freshwater resources wisely, mō tātou, ā, mō ngā uri ā muri ake nei, for all of us and the generations that follow. Policy 5 Promote the management of freshwater according to the principle of ki uta ki tai, and thus the fl ow of water from source to sea. Policy 6 Promote catchment management planning (ki uta ki tai), as a means to recognise and provide for the relationship between land and water Policy 8 Protect and enhance the customary relationship of Ngāi Tahu ki Murihiku with freshwater resources. Section 3.5.11 Rivers Policy 1. Promote catchment management planning (ki uta ki tai), as a means to recognise and provide for the relationship between land and water. Section 3.5.14 Water Quantity (If there are water takes associated with the damming then further consideration of this section will be required) Policy 12 The establishment of environmental flow regimes must recognise and provide for a diversity of values, including the protection of tangata whenua values Policy 13. Ensure that environmental flow allocation and water management regimes for rivers recognise and provide for the relationship between water quality and quantity. Section 3.5.15 Activities in the beds and margins of rivers Policy 11 Require that placement of culverts and other flood works activities in the beds or margins of waterways is such that the passage of native fish and other stream life is not impeded. Policy 13 Require that the placement of culverts and other flood works activities in the beds or margins of waterways occurs in a manner that minimises disturbance to the streambed Policy 15 Require that that placement of culverts and other flood works activities in the beds or margins of waterways occur at times of low or no flow Policy 16 Require that short term effects on water quality and appearance are mitigated during culvert or flood works construction, and for a settling period

that are part of customary use of such fisheries, as guaranteed by the Treaty of Waitangi. Policy 2 Advocate for the protection, restoration and enhancement of waterways, riparian margins, and wetlands as a means of protecting and enhancing freshwater fishery values. Policy 5 Avoid compromising freshwater fishery values as a result of diversion, extraction, or other competing use for water, or as a result of any activity in the bed or margin of a lake or river. Policy 6 Ensure that all native fi sh species have uninhibited passage from the river to the sea at all times, through ensuring continuity of flow ki uta ki tai. Policy 8 Ensure the protection of all sites identifi ed as Nohoanga under the Ngāi Tahu Claims Settlement Act 1998, as a means of providing tangata whenua with an opportunity to experience the landscape as our tūpuna once did, and to promote customary practices associated with mahinga kai. 3.5.21 Protection of Significant Sites Policy 1 Ensure that Ngāi Tahu ki Murihiku are able to eff ectively exercise their role as kaitiaki over wāhi tapu and wāhi taonga in Murihiku. Policy 5 Avoid compromising unidentified, or unknown, sites of cultural significance as a consequence of ground disturbance associated with land use, subdivision and development. Policy 6 Ensure that oral history and customary knowledge is considered equally alongside documented evidence when determining the cultural heritage values of a region or site. Policy 7. Applications for activities in areas of cultural significance where there are no known sites but the likelihood of finding sites is high, will require one or more of the following (at the cost of the applicant): a. site visit; b. archaeological survey (walk over/test pitting), or a full archaeological description, by an archaeologist approved by Ngāi Tahu ki Murihiku c. archaeological authority; d. cultural impact assessment; e. cultural monitoring; f. accidental discovery protocol agreement

If you have any queries relating to information requirements, please contact the Otago Regional Council Offices:

Policy 8 Where an archaeological survey is required to assess the cultural heritage values in an area, the archaeologist must have the mandate of the appropriate

Policy 10 Ensure that resource consent applicants are aware that liaising with iwi on the cultural impacts of a development does not constitute an archaeological

kaitiaki rūnanga.

assessment

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