SUMMARY OF DECISIONS REQUESTED

(original submissions and further submissions)

on Proposed Plan Change 4A (Groundwater and North Otago Volcanic Aquifer)

to the Regional Plan: Water for Otago



8 April 2011

Preface

Proposed Plan Change 4A (Groundwater and North Otago Volcanic Aquifer) to the Regional Plan: Water for Otago was publicly notified on Saturday 18 September 2010 in accordance with Clause 5 of the First Schedule of the Resource Management Act 1991 (RMA).

The Otago Regional Council received a total of nine submissions and two further submissions on the Proposed Plan Change from a range of groups, organisations and individuals.

This document summarises the decisions requested in the nine submissions and two further submissions received, by both issue and submitter.

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SubmitterSubmitter Name (Last Name, First Name or Organisation)Number

Original Submitters

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- 2 Dunedin City Council
- 3 Waitaki Coastal Care
- 4 The Director-General of Conservation
- 5 Contact Energy Limited
- 6 Clutha District Council
- 7 Horticulture New Zealand
- 8 Wilson, Max Stuart and Cheryl Anne (late submission)
- 9 Keen, Kenneth John (late submission)

Further Submitters

- 11 The Director-General of Conservation
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NAME	NUMBER	REF	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Dunedin City Council	2	2	Support	Retain Policy 6.4.8 as proposed.	Provides an improved degree of certainty to DCC's ability
					to continue to supply water to residents during periods of
					low flow or reduced aquifer levels.
Clutha District Council	6	2	Support	We support the provision for "connected"	Community water schemes need security of supply, as
				groundwater takes for community supply as per	they provide for the health of communities and stock.
				Schedule 3B to be exempt from minimum flow	Such supplies should have absolute protection under the
				requirements.	Water Plan.
Clutha District Council	6	2	Amend	Add "Where a community water supply intake is	Rule 12.2.2A.1 limits the volume/rate of a community
				relocated to a point where the same or more water is	water supply to that authorised as at 28 February 1998.
				available for allocation, then the existing rights	The S32 report says that for the Clydevale/Pomahaka
				under Schedules 1B or 3B shall transfer to the new	scheme this would be the combined total of the two
				location."	previous consents, but this is not carried through into the
					rule. To address this issue in a more general way, where a
					take is relocated to a new source where there is less
					allocation pressure, then the existing rights to exemption
					from a minimum flow should be retained. This would
					cover Clydevale/Pomahaka and facilitate any future
		- 10			similar moves.
Horticulture NZ	12	6/2	Oppose in	No decision requested.	While the transferred volume may be the same, or if more
			part		water is available for allocation, there is the potential for
					effects on other users which require assessment. The
		-			efficient use of water should also be assessed.
Clutha District Council	6	2	Oppose	Retain the phrase "while ensuring sufficient supply	The key purpose of community water supplies is to
				under low flow conditions so that human health and	provide for health and safety, and it would be dangerous
	12	(12)	G	safety are not compromised" in the explanation.	and inappropriate to try to ignore this.
Horticulture NZ	12	6/2	Support	No decision requested.	It is accepted that takes for community supply should be
					exempt from minimum flow requirements for human
					health and sanitation purposes.

Connected groundwater community supplies and minimum flows: Policy 6.4.8

Purpose and use of restriction levels: New Policy 6.4.10AB

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Dunedin City Council	2	4	Amend	Recognition of the adverse impact restriction will	While the intent of the policy to protect aquifers from
				have upon community water supplies, and an	over-depletion during periods of low recharge is
				exemption from the requirement to adhere to	understood and supported in principle, the proposed
				restriction levels in order to provide water for human	policy may adversely impact upon a community water

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
				health and sanitation during periods when restrictions are in force. Such an exemption would only be applicable if all practicable water conservation measures (as agreed with the Territorial Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and sanitation during periods when restrictions are in force. This may entail the requirement to create a new policy. The following wording for a new policy is suggested: <i>"Community water supply takes listed in Schedule 4B will be exempt from the requirement to adhere to restriction levels in order to provide water for human health and sanitation purposes during periods when restrictions are in force. Such an exemption is only applicable if all practicable water conservation measures (as agreed with the Consenting Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and during periods of restriction."</i>	supplier's ability to provide water for human health and safety.
Horticulture NZ	12	2/4	Support in part	No decision requested.	It is reasonable to exempt community water supply takes from restriction levels if the exemption is limited to human health and sanitation purposes.
The Director-General of Conservation	4	4	Amend	The following amendment be made to Policy 6.4.10AB Explanation. Groundwater restriction levels can be useful They can assist in avoiding land subsidence, aquifer compression, and reduced outflows to surface water <u>and sustaining the life supporting capacity of</u> <u>aquifers</u> .	Groundwater restriction levels also have a significant role in sustaining the life supporting capacity of aquifers.

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
				That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made.	
Horticulture NZ	12	4/4	Oppose	No decision requested.	It is unclear as to what the submitter is seeking to protect through this addition.
Horticulture New Zealand and North Otago Vegetable Growers Association	7	4	Amend	Add to the Explanation that the extent of the aquifer recharge volumes will be an important part of establishing restriction levels.	The key to setting a minimum level, and hence restrictions, is the extent of the recharge. While an aquifer may be reduced during summer, recharge will return it to higher levels. There needs to be clear reasons why a restriction would be set significantly higher than the extent of the recharge volume.

Managing risk of aquifer contamination due to take: New Policy 6.4.10AC

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
James Robert O'Gorman	1	5	Amend	Increase quality measurements of soil and water throughout the catchment, test at least monthly.	The entire plan is flawed in that it is guaranteed to increase contamination in soil and water in the catchment. Stop and reassess that which you have first. Clean up what you have already before you abuse the environment further. The water from these aquifers is already heavily contaminated. Clean it up before you allocate it.
Dunedin City Council	2	5	Amend	Recognition of the adverse impact restriction will have upon community water supplies, and an exemption from the requirement to adhere to restriction levels in order to provide water for human health and sanitation during periods when restrictions are in force. Such an exemption would only be applicable if all practicable water conservation measures (as agreed with the Territorial Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and sanitation during periods when restrictions are in force. This may entail the requirement to create a new policy.	While the intent of the policy to protect aquifers from contamination and seawater intrusion is understood and supported in principle, provisions within the policy advocating for the setting of aquifer restriction levels and restricting takes may adversely impact upon a community water supplier's ability to provide water for human health and safety.

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
				The following wording for a new policy is suggested: "Community water supply takes listed in Schedule 4B will be exempt from the requirement to adhere to restriction levels in order to provide water for human health and sanitation purposes during	
				periods when restrictions are in force. Such an exemption is only applicable if all practicable water conservation measures (as agreed with the Consenting Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and during periods of restriction."	
Waitaki Coastal Care	3	5	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer Study.
Horticulture New Zealand and North Otago Vegetable Growers Association	7	5	Amend	Amend Policy 6.4.10AC(d) to read: Setting aquifer restriction levels where needed.	This better reflects Policy 6.4.10AB, to define restriction levels where needed.
Horticulture New Zealand and North Otago Vegetable Growers Association	7	5	Amend	Amend Policy 6.4.10AC Explanation by adding a new sentence as follows: <u>Monitoring of groundwater quality and levels will</u> <u>be undertaken by the Otago Regional Council.</u>	Policy 6.4.10AC(f) requires monitoring of groundwater quality and levels, but the explanation provides no guidance as to who is to undertake this monitoring.

Management of the Deborah and Waiareka Aquifers: Policy 9.4.23

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
James Robert O'Gorman	1	8	Amend	Increase quality measurements of soil and water	The entire plan is flawed in that it is guaranteed to
				throughout the catchment, test at least monthly.	increase contamination in soil and water in the catchment.
					Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
					contaminated. Clean it up before you allocate it.

Simplify permitted groundwater take: Rule 12.2.2.2

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Horticulture New Zealand and	7	10	Amend	Retain Rule 12.2.2.2(b) and (c) and (e) as currently	The effects on an aquifer are different to surface water and
North Otago Vegetable				provided for in the Regional Plan: Water for Otago;	there should be effects-based reasons for the change,
Growers Association				or	rather than a desire for consistency. Those areas where
					the current volume is 10 m ³ /day will benefit, while those
				Amend Proposed Rule 12.2.2.(e) to 30,000 litres	where the current volume is 30 m ³ /day will be penalised.
				per day and relocate the clause as clause (a), and	Those currently using 30 m ³ /day will need to apply for a
				renumber subsequent clauses.	consent at considerable cost, for no demonstrated
					resource management reason.
					The structure of the Rule would be clearer if clause (e)
					was renumbered as (a) so it is clear from the outset what
					the permitted volume is.

Community water supplies and restriction levels: Rule 12.2.2A.1

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Dunedin City Council	2	12	Amend	Amend the wording Policy 12.2.2A.1 as follows: "The taking and use of groundwater for community water supply, up to any volume or rate authorised as at 28 February 1998 <u>18</u> September 2010, by any take identified in Schedule 3B is a controlled activity". Consequential amendments to Rule 12.2.2A.1 resulting from the repealing of Section 93 and 94(1) of the Resource Management Act 1991 by Section 76 of the Resource Management (Simplifying and Streamlining) Amendment Act 2009.	Since notification of the Water Plan on 28 February 1998, consents held by the DCC to take and use groundwater for community water supplies have been renewed (i.e. the Mosgiel community water supply in 2007) resulting in an increase in the volume of water granted as primary allocation to account for population growth. Policy 6.4.2A, added by Plan Change 1C, allows for existing primary allocation takes of water used for community water supplies to be granted more water than has been allocated in the past where there is evidence that growth is reasonably anticipated, acknowledging that irrespective of measures to improve efficiency, demand on community water supplies can increase due to population growth. Consequently it is appropriate to acknowledge that the volume of water consented to be taken by community supplies listed in Schedule 3B is unlikely to be less than the volume required at the time

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
					Plan Change 4A was notified.
Clutha District Council	6	12	Amend	Paragraph 1, delete ", up to any volume or rate authorised as at 28 February 1998".	The rule limits the volume/rate to that authorised as at 28 February 1998. The background information says that for the Clydevale/Pomahaka scheme this would be the combined total of the two previous consents, but this is not carried through into the rule. This should be made explicit in the rule, or preferably, the restriction removed.
Horticulture New Zealand and North Otago Vegetable Growers Association	7	12	Amend	Amend Rule 12.2.2A.1 (a) to read: The need to observe a restriction level and how that level may be met.	Supports the need to consider a restriction level, but the matter of control should enable the ORC to consider how the restriction level should be met. An application for community water supply should specify measures that would be taken to meet restrictions that may be imposed.
Kenneth John Keen	9	12	Amend	The Maheno Water Committee Incorporated bore to be exempt from such a harsh regime as indicated in Schedule 4B.	Restriction levels should not apply to community water supplies. A community cannot dry off their cows and not use as much water as they were accustomed to, even though they can and do conserve water if requested.

Considering effects of take on aquifer properties: Rule 12.2.3.4

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
NAME Horticulture New Zealand and North Otago Vegetable Growers Association	NUMBER 7	<u>Ref</u> 13	Position Amend	Amend Rule 12.2.3.4 as follows: (a) Maximum allocation volume for the aquifer; and <u>or</u> (b) Mean annual recharge of that aquifer; and (c) The effect of the take on the physical properties of the aquifer. Specify the physical properties that would be considered under clause (c).	REASON FOR DECISION REQUESTEDUnless a maximum allocation volume is specified in the Plan the current default is 50% mean annual recharge. It is unclear why both need to be considered as part of a consent application.The effect of the take on the physical properties of that aquifer could lead to extensive requirements as part of a consent application. The S32 report identifies that restriction levels and maximum allocation volumes protect the physical properties of an aquifer. Where there is not a restriction level and the default maximum allocation volume applies, the ORC should be able to

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
					12.2.3.4(c) should be specified, so it is clear to an
					applicant the extent of information required. "Physical
					properties of the aquifer" is open to interpretation.
The Director-General of	11	7/13	Oppose	Oppose and retain the relevant wording in the	The maximum allocation volume for an aquifer is not
Conservation				proposed plan change.	always the mean annual recharge. The ability to
					consider both matters should be retained.

Calculation of consented take: New Method 15.8.3

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Horticulture New Zealand and	7	14	Amend	Add an additional point (d) to Method 15.8.3 as	The proposed methodology is supported to the extent it
North Otago Vegetable				follows:	does not take the 'worst case' scenario which would
Growers Association					severely limit the amounts available for allocation.
				Where volumes have been calculated on weekly or	However, there are concerns extrapolating potentially
				litres/second the volumes will be ground-truthed and	inaccurate litres/second into an annual volume, making a
				adjusted if required to reflect actual usage volumes.	small error a large error. There should be provision for
					adjustment from unrealistic figures.
				Add to the Explanation:	
					When applied in conjunction with restriction levels the
				The purpose of the method is to establish the	physical properties of an aquifer are protected, so this
				assessed maximum annual take and will not be used	'balanced' approach is supported.
				to limit an individual consent.	

Identification of groundwater takes used for community supply: Schedule 3B

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Dunedin City Council	2	15	Support	Retain Schedule 3B as proposed.	The DCC supports the inclusion of the "Mosgiel Water
					Supply" in Schedule 3B.
Clutha District Council	6	15	Support	We support the addition of the Clydevale/Pomahaka	Community water schemes need security of supply, as
				take to Schedule 3B.	they provide for the health of communities and stock.
					Rural water supplies also have environmental benefit
					(more efficient supply and direct stock access to
					waterways is avoided). Such supplies should have
					absolute protection under the Water Plan.
Clutha District Council	6	15	Amend	We request that Schedule 3B apply to all identified	To reflect community water supply values appropriately.
				community water supplies and that all references to	Community water schemes need security of supply, as
				it only applying to supplies in place at 28 February	they provide for the health of communities and stock.
				1998 be deleted.	Such supplies should have absolute protection under the

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
					Water Plan.
				Schedule 3B - amend reference 13, Clydevale-Pomahaka Water Supply by deleting "volume as at 28/2/98: 2082 m ³ /day".	

A maximum allocation volume for the North Otago Volcanic Aquifer: Schedule 4A

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
James Robert O'Gorman	1	17	Oppose	Do not increase any allocations at all, throughout the catchment.	The entire plan is flawed in that it is guaranteed to increase contamination in soil and water in the catchment. Stop and reassess that which you have first. Clean up what you have already before you abuse the environment further. The water from these aquifers is already heavily contaminated. Clean it up before you allocate it.
Waitaki Coastal Care	3	17	Oppose	Before considering any allocation limit increase collection of aquifer data so a precise and correct decision is made.	Present water extractors need to be better monitored on what they are taking. Recharge patterns are complex and irregular (as reported in section 4.3 of the North Otago Aquifer Study). Kakanui township draws water supply from the Kakanui River within the aquifer (as reported in section 5.2.1 of the North Otago Aquifer Study). Monitoring is integral in groundwater management (as reported in section 5.3.1 of the North Otago Aquifer Study). Science promoted by ORC doesn't match the opinions, feedback, stories, observations, anecdotes and issues expressed at community workshops held in Kakanui. If more water is allocated for 35 year terms, on little data, there is a good chance the aquifer could become over-allocated.
The Director-General of Conservation	4	17	Support	The Director-General supports the proposed maximum allocation of 5 million cubic metres per year from the North Otago Volcanic Aquifer.	This allocation will sustain the aquifer's life supporting capacity. The proposed allocation is consistent with the relevant allocations in the proposed National Environmental Standard on Ecological Flows and Water Levels.
Horticulture NZ	12	4/17	Oppose	No decision requested.	There is a discussion document on Ecological Flows and Water Levels but no National Environmental Standard (NES) has been proposed, and any NES would be different to that discussion document. Policy should not be

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					promulgated on the discussion document which has no
					legal status.
Horticulture New Zealand and	7	17	Amend	Amend Schedule 4A North Otago Volcanic Aquifer	The justification for not using the technical
North Otago Vegetable				to 7 Mm ³ /year.	recommendation of 7 Mm ³ /year is that it does not
Growers Association					consider wider matters such as social and economic
					benefits of taking and using water. However, 7
					Mm ³ /year would provide greater economic benefit.
					The recommended 5 Mm ³ /year is seen to balance
					community concerns with the technical recommendation.
					However, the nature of community concerns seem to
					relate to the ability to fully exercise a consent because of
					shallow or poorly constructed bores, rather than insufficient water, and this should not penalise future
					water users. Limiting the volume for that reason
					provides no incentive for shallow or poorly constructed
					bores to be better constructed.
					The technical group has in all likelihood already struck a
					balance in making their recommendation that the sustainable allocation limit should be set at 7 Mm ³ /year,
					as these groups often err on the side of caution. Adding a
					further level of caution seems to be overly conservative in
					the guise of taking a balanced approach. A balanced
					approach would be assessing current consented levels (4
					Mm ³ /year) against the maximum sustainable yield (10
					Mm ³ /year) and recommending 7 Mm ³ /year. The
					technical recommendation is already 30% below the
					aquifer's 50% mean annual recharge.
					The volume available to be taken is dependent on how
					assessed maximum annual take is established (Method
					15.8.3). If a worst case scenario is used, there would be
	11	7/17			no scope for new takes in the area.
The Director-General of	11	7/17	Oppose	<i>Oppose and retain proposed allocation of</i> 5 Mn^3 <i>(non-static proposed allocation of 5)</i>	5 Mm ³ /year will better sustain the life-supporting
Conservation Max Stuart and Charul Anna	0	17	Amond	$Mm^3/year$.	capacity of the North Otago Volcanic Aquifer.
Max Stuart and Cheryl Anne	8	17	Amend	Fall from option 5 in paragraph 3.1.3 [of the Section	Option 5 as recommended (5 Mm ³ /year) is unnecessary

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Wilson				32 report] and implement option 2. I support option	when the other changes are made.
				2 where the allocation is set at 7 Mm ³ /year.	
The Director-General of	11	8/17	Oppose	Oppose and retain proposed allocation of 5	5 Mm ³ /year will better sustain the life-supporting
Conservation				Mm3/year.	capacity of the North Otago Volcanic Aquifer.

Restriction levels in Webster's Well: Schedule 4B

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Waitaki Coastal Care	3	18	Oppose	Strongly oppose any relaxing of restrictions.	Notes section 8.2 of the North Otago Volcanic Aquifer
					Study.
Horticulture New Zealand and North Otago Vegetable Growers Association	7	18	Amend	Provide rationale for restriction levels for groundwater takes in Schedule 4B for the North Otago Volcanic Aquifer and amend if technical rationale supports lower levels.	
					relationship of the restriction levels to annual recharge volumes?

Setting maximum allocation volumes and restriction levels: New Schedule 4C

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Contact Energy Limited	5	19	Amend	Add to Schedule 4C as follows or to like effect (new	Groundwater takes can cumulatively impact the quantity
				text underlined):	of water available in surface water bodies where
					hydrologically connected. Although Schedule 4C.1
				4C.1 When setting maximum allocation volumes in	identifies the interaction with surface water bodies as an
				Schedule 4A for an aquifer, consideration will be	issue, this could be read as relating solely to the ecological
				given to the following matters:	values of such water bodies.
				(d) Interaction with surface water bodies and their	Ensuring water is available for hydro-generation is
				values, including the potential for groundwater takes	appropriate and necessary as section 7(j) of the RMA
				to have a cumulative adverse effect on existing	provides for the generation of renewable energy as a
				lawful surface water uses such as hydro-electric	matter of national importance. The Regional Policy
				generation.	Statement for Otago, which the ORC must give effect to,
					also recognises the importance of existing and potential
				Any other consequential changes as are necessary to	hydro-generation from the region.
				give effect to the relief sought above.	
The Director-General of	11	5/19	Oppose	Oppose and retain the relevant wording in the	Renewable energy is but one of eleven RMA section 7

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Conservation				proposed plan change.	matters, and therefore should not be given preference
					over any other such matters.
Horticulture NZ	12	5/19	Oppose in	No decision requested.	The Schedule already provides for consideration of
			part		interaction with surface water bodies and their values, so
					specific provision for hydroelectric generation is not
					necessary.
Horticulture New Zealand and	7	19	Amend	Retain matters identified in Schedules 4C.1 and	Generally the matters listed are supported, but there
North Otago Vegetable				4C.2 but amend 4C.2(c) by adding "and the extent to	should be greater consideration of the relationship
Growers Association				which the aquifer recovers from maximum	between the annual recharge volume and the minimum
				allocation volumes".	volume before restrictions apply. As stated in respect to
					Policy 6.4.10AB the key to setting a minimum level, and
					hence restrictions, is the extent of recharge. While an
					aquifer level may be reduced during summer, recharge
					will return it to higher levels. There needs to be clear
					reasons why a restriction [level] would be set significantly
					higher than the extent of the recharge volume. Of note is
					the consideration of physical properties in the aquifer, on
					which comment has been made in relation to Rule
					12.2.3.4.

Managing risk of aquifer contamination due to take: Map C10 (seawater intrusion risk zone)

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Waitaki Coastal Care	3	22	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer
					Study.

Managing risk of aquifer contamination due to take: Map C10a (seawater intrusion risk zone)

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Waitaki Coastal Care	3	23	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer
					Study.

General support for plan change

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Dunedin City Council	2	28	Support	The DCC is generally supportive of Proposed Plan	The DCC is generally supportive insofar as it appreciates
-				Change 4A.	that such a change is necessary for achieving the purposes
					of the RMA and ensuring sustainable development and

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
					protection of groundwater resources. However, DCC is
					concerned about the potential impact of the proposed
					changes upon its lawfully established groundwater takes
					used for community water supplies.

General opposition to plan change

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
James Robert O'Gorman	1	29	Oppose	Abandon the plan change and wait until you have cleaned the river systems throughout Otago before any further water allocation.	
					contaminated. Clean it up before you allocate it.

Matters beyond the scope of the plan change

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
James Robert O'Gorman	1	30	Not	Follow the guidance (when it is available) of the	The entire plan is flawed in that it is guaranteed to
			Applicable	Land and Water Forum report; this plan does not.	increase contamination in soil and water in the catchment.
James Robert O'Gorman	1	30	Not	Remove from office those officers whose decisions	The entire plan is flawed in that it is guaranteed to
			Applicable	continue to bring toxic outcomes to the environment.	increase contamination in soil and water in the catchment.
James Robert O'Gorman	1	30	Not	Do not give rights for 35 years in resource consents.	The water from these aquifers is already heavily
			Applicable		contaminated. Clean it up before you allocate it.
James Robert O'Gorman	1	30	Not	Educate the farmers that high salt index chemical	The entire plan is flawed in that it is guaranteed to
			Applicable	fertilisers are the reason their soil biology is failing	increase contamination in soil and water in the catchment.
				and leaching into our groundwater and streams.	Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
					contaminated. Clean it up before you allocate it.
James Robert O'Gorman	1	30	Not	Bring back the frogs.	The entire plan is flawed in that it is guaranteed to
			Applicable		increase contamination in soil and water in the catchment.
Waitaki Coastal Care	3	30	Not	Support any measure to clean up and reduce	Notes section 8.4 of the North Otago Aquifer Study.
			Applicable	pollution of the aquifer.	Nitrate-nitrogen concentrations in the aquifer are a health
					concern (as reported in section 3.2 of the North Otago
					Aquifer Study). Human activity has raised
					nitrate-nitrogen concentrations (as reported in section 7.2
					of the North Otago Aquifer Study).

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Waitaki Coastal Care	3	30	Not Applicable	Support better management of aquifer [in relation to recommendations regarding bore construction in section 8.5 of the North Otago Aquifer Study].	Notes section 8.5 of the North Otago Volcanic Aquifer Study.
Waitaki Coastal Care	3	30	Not Applicable	Present water extractors need to be better monitored on what they are taking.	Before considering any allocation limit increase collection of aquifer data so a precise and correct decision is made. Data is compromised without declaration of volume used by extractors.
The Director-General of Conservation	4	30	Not Applicable	The Director-General of Conservation (Director-General) requests that the following amendment be made to Policy 6.4.10A: 6.4.10A To enable the taking of groundwater by: (a) In each aquifer other than any in Schedule 2C or within 100 metres of a connected perennial surface water body, defining a quantity known as the maximum allocation volume, which is: (a)(i) For aquifers in Schedule 4A, (a)(ii) With the exception of those aquifers detailed in (a)(iii), for aquifers other than those in Schedule 4A (a)(iii) For the following aquifers: (1) Manuherikia claybound aquifer, the Manuherikia alluvium aquifer, the Dunstan Flat aquifer and the Earnscleugh Terrace aquifer; (2) The Maniototo tertiary aquifer; and the (3) Cardrona alluvial ribbon and Wanaka Basin Cardrona gravel aquifer; either A limit which is 35% of the calculated mean annual recharge: or The sum of the maximum annual take for that aquifer at 10 April 2010, less any quantity in a consent where: (A) All of the water taken is immediately returned to the aquifer or connected surface water body; (B) The consent has been surrendered or has expired (except where the quantity has been granted to the	So that populations of threatened indigenous fish that inhabit waterways recharged in part from the three aquifers listed are not adversely affected by over-allocation.

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
				 existing consent holder as a new consent); (C) The consent has been cancelled (except where the quantity has been transferred to a new consent under Section 136(5)); (D) The consent has lapsed: That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made. 	
The Director-General of Conservation	4	30	Not Applicable	The Director-General requests the following amendment be made: 6.4.10A Explanation (paragraph 2) Sustainable allocation of groundwater will be achieved by considering as restricted discretionary activities, those applications where: (i) The individual take would not cause the cumulative take (ii) Relevant aquifer restriction levels (including those in Policy 6.4.10(a)(iii)) are met. That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made.	To enable the carrying through of the amendments sought by the Director-General to Policy 6.4.10A.
Clutha District Council	6	30	Not Applicable	Schedule 1B - Add "Waipahi River Waipahi Water Supply at G45:196488".	To ensure consistency and certainty. Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.
Clutha District Council	6	30	Not Applicable	We request that Schedule 1B apply to all identified community water supplies and that all references to it only applying to supplies in place at 28 February 1998 be deleted. Schedule 1B Water Supply Values: Paragraph 1, 1st sentence, delete "existing". Paragraph 1, 2nd sentence, delete "have come to".	To reflect community water supply values appropriately. Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.

NAME	NUMBER	Ref	POSITION	DECISION REQUESTED	REASON FOR DECISION REQUESTED
Clutha District Council	6	30	Not	Rule 12.1.3.1:	Community water schemes need security of supply, as
			Applicable		they provide for the health of communities and stock.
				Paragraph 1, delete ", up to any volume or rate	Such supplies should have absolute protection under the
				authorised as at 28 February 1998".	Water Plan.
				Principal reasons for adopting [Rules in section 12.1] - Paragraph 4 [6 in version of Water Plan incorporating Council's decisions on proposed plan change 1C], delete "existing".	
				Principal reasons for adopting [Rules in section 12.2] - Paragraph 5 [6 in version of Water Plan	
				incorporating Council's decisions on proposed plan	
				change 1C], delete "existing", amend "1B" to "3B".	

SUMMARY OF DECISIONS REQUESTED BY SUBMITTER

1 James Robert O'Gorman

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
5	Managing risk of aquifer	New Policy	Amend	Increase quality measurements of soil and water	The entire plan is flawed in that it is guaranteed to
	contamination due to take	6.4.10AC		throughout the catchment, test at least monthly.	increase contamination in soil and water in the catchment.
					Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
<u>^</u>					contaminated. Clean it up before you allocate it.
8	Management of the	Policy 9.4.23	Amend	Increase quality measurements of soil and water	The entire plan is flawed in that it is guaranteed to
	Deborah and Waiareka			throughout the catchment, test at least monthly.	increase contamination in soil and water in the catchment.
	Aquifers				Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
17	A maximum allocation	Schedule 4A	Opposo	Do not increase any allocations at all, throughout the	contaminated. Clean it up before you allocate it. The entire plan is flawed in that it is guaranteed to
1 /	volume for the North	Schedule 4A	Oppose	catchment.	increase contamination in soil and water in the catchment.
	Otago Volcanic Aquifer			cateminent.	Stop and reassess that which you have first. Clean up
	Otago Volcanie Aquiter				what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
					contaminated. Clean it up before you allocate it.
29	General opposition to	General	Oppose	Abandon the plan change and wait until you have	The entire plan is flawed in that it is guaranteed to
	plan change	opposition	- F F	cleaned the river systems throughout Otago before	increase contamination in soil and water in the catchment.
		11		any further water allocation.	Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
					contaminated. Clean it up before you allocate it.
30	Matters beyond the scope		Not	Follow the guidance (when it is available) of the	The entire plan is flawed in that it is guaranteed to
	of the plan change		Applicable	Land and Water Forum report; this plan does not.	increase contamination in soil and water in the catchment.
30	Matters beyond the scope		Not	Remove from office those officers whose decisions	The entire plan is flawed in that it is guaranteed to
	of the plan change		Applicable	continue to bring toxic outcomes to the environment.	increase contamination in soil and water in the catchment.
30	Matters beyond the scope		Not	Do not give rights for 35 years in resource consents.	The water from these aquifers is already heavily
	of the plan change		Applicable		contaminated. Clean it up before you allocate it.
30	Matters beyond the scope		Not	Educate the farmers that high salt index chemical	The entire plan is flawed in that it is guaranteed to
	of the plan change		Applicable	fertilisers are the reason their soil biology is failing	increase contamination in soil and water in the catchment.
				and leaching into our groundwater and streams.	Stop and reassess that which you have first. Clean up
					what you have already before you abuse the environment
					further. The water from these aquifers is already heavily
					contaminated. Clean it up before you allocate it.

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
30	Matters beyond the scope		Not	Bring back the frogs.	The entire plan is flawed in that it is guaranteed to
	of the plan change		Applicable		increase contamination in soil and water in the catchment.

2 Dunedin City Council

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
2	Connected groundwater community supplies and minimum flows	Policy 6.4.8	Support	Retain Policy 6.4.8 as proposed.	Provides an improved degree of certainty to DCC's ability to continue to supply water to residents during periods of low flow or reduced aquifer levels.
4	Purpose and use of restriction levels	New Policy 6.4.10AB	Amend	Recognition of the adverse impact restriction will have upon community water supplies, and an exemption from the requirement to adhere to restriction levels in order to provide water for human health and sanitation during periods when restrictions are in force.Such an exemption would only be applicable if all practicable water conservation measures (as agreed with the Territorial Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and sanitation during periods when restrictions are in force. This may entail the requirement to create a new policy. The following wording for a new policy is suggested:"Community water supply takes listed in Schedule 4B will be exempt from the requirement to adhere to restriction levels in order to provide water for human health and sanitation purposes during periods when restrictions are in force. Such an 	While the intent of the policy to protect aquifers from over-depletion during periods of low recharge is understood and supported in principle, the proposed policy may adversely impact upon a community water supplier's ability to provide water for human health and safety.

Issue	Provision	Position	Decision Requested	Reason for Decision Requested
			provide water for human health and during periods of restriction."	
Managing risk of aquifer contamination due to take	New Policy 6.4.10AC	Amend	Recognition of the adverse impact restriction will have upon community water supplies, and an exemption from the requirement to adhere to restriction levels in order to provide water for human health and sanitation during periods when restrictions are in force. Such an exemption would only be applicable if all practicable water conservation measures (as agreed with the Territorial Authority) are implemented and no alternative source of water supply of equivalent quality and quantity can be practicably utilised to provide water for human health and sanitation during periods when restrictions are in force. This may entail the requirement to create a new policy. The following wording for a new policy is suggested: <i>"Community water supply takes listed in Schedule 4B will be exempt from the requirement to adhere to restriction levels in order to provide water for human health and sanitation purposes during periods when restrictions are in force. Such an exemption is only applicable if all practicable water conservation measures (as agreed with the <i>Consenting Authority) are implemented and no alternative source of water supply of equivalent</i></i>	While the intent of the policy to protect aquifers from contamination and seawater intrusion is understood and supported in principle, provisions within the policy advocating for the setting of aquifer restriction levels and restricting takes may adversely impact upon a community water supplier's ability to provide water for human health and safety.
			quality and quantity can be practicably utilised to provide water for human health and during periods of restriction."	
Community water supplies and restriction levels	Rule 12.2.2A.1	Amend	Amend the wording Policy 12.2.2A.1 as follows: "The taking and use of groundwater for community water supply, up to any volume or rate authorised as	Since notification of the Water Plan on 28 February 1998, consents held by the DCC to take and use groundwater for community water supplies have been renewed (i.e. the Mosgiel community water supply in 2007) resulting in an

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
				identified in Schedule 3B is a controlled activity". Consequential amendments to Rule 12.2.2A.1 resulting from the repealing of Section 93 and 94(1) of the Resource Management Act 1991 by Section 76 of the Resource Management (Simplifying and Streamlining) Amendment Act 2009.	allocation to account for population growth. Policy 6.4.2A, added by Plan Change 1C, allows for existing primary allocation takes of water used for community water supplies to be granted more water than has been allocated in the past where there is evidence that growth is reasonably anticipated, acknowledging that irrespective of measures to improve efficiency, demand on community water supplies can increase due to population growth. Consequently it is appropriate to acknowledge that the volume of water consented to be taken by community supplies listed in Schedule 3B is unlikely to be less than the volume required at the time Plan Change 4A was notified.
15	Identification of groundwater takes used for community supply	Schedule 3B	Support	Retain Schedule 3B as proposed.	The DCC supports the inclusion of the "Mosgiel Water Supply" in Schedule 3B.
28	General support for plan change	General support	Support	The DCC is generally supportive of Proposed Plan Change 4A.	The DCC is generally supportive insofar as it appreciates that such a change is necessary for achieving the purposes of the RMA and ensuring sustainable development and protection of groundwater resources. However, DCC is concerned about the potential impact of the proposed changes upon its lawfully established groundwater takes used for community water supplies.

3 Waitaki Coastal Care

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
5	Managing risk of aquifer	New Policy	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer
	contamination due to take	6.4.10AC			Study.
17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Oppose	Before considering any allocation limit increase collection of aquifer data so a precise and correct decision is made.	Present water extractors need to be better monitored on what they are taking. Recharge patterns are complex and irregular (as reported in section 4.3 of the North Otago Aquifer Study). Kakanui township draws water supply from the Kakanui River within the aquifer (as reported in section 5.2.1 of the North Otago Aquifer Study). Monitoring is integral in groundwater management (as

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
					reported in section 5.3.1 of the North Otago Aquifer Study). Science promoted by ORC doesn't match the opinions, feedback, stories, observations, anecdotes and issues expressed at community workshops held in Kakanui. If more water is allocated for 35 year terms, on little data there is a good shore the actuing a could
		~			little data, there is a good chance the aquifer could become over-allocated.
18	Restriction levels in Webster's Well	Schedule 4B	Oppose	Strongly oppose any relaxing of restrictions.	Notes section 8.2 of the North Otago Volcanic Aquifer Study.
22	Managing risk of aquifer contamination due to take	Map C10 (seawater intrusion risk zone)	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer Study.
23	Managing risk of aquifer contamination due to take	Map C10a (seawater intrusion risk zone)	Support	Supports [management of] seawater intrusion risk.	Notes section 8.1 of the North Otago Volcanic Aquifer Study.
30	Matters beyond the scope of the plan change		Not Applicable	Support any measure to clean up and reduce pollution of the aquifer.	Notes section 8.4 of the North Otago Aquifer Study. Nitrate-nitrogen concentrations in the aquifer are a health concern (as reported in section 3.2 of the North Otago Aquifer Study). Human activity has raised nitrate-nitrogen concentrations (as reported in section 7.2 of the North Otago Aquifer Study).
30	Matters beyond the scope of the plan change		Not Applicable	Support better management of aquifer [in relation to recommendations regarding bore construction in section 8.5 of the North Otago Aquifer Study].	Notes section 8.5 of the North Otago Volcanic Aquifer Study.
30	Matters beyond the scope of the plan change		Not Applicable	Present water extractors need to be better monitored on what they are taking.	Before considering any allocation limit increase collection of aquifer data so a precise and correct decision is made. Data is compromised without declaration of volume used by extractors.

4 The Director-General of Conservation

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested	
4	Purpose and use of	New Policy	Amend	The following amendment be made to Policy	Groundwater restriction levels also have a significant role	
	restriction levels	6.4.10AB		6.4.10AB Explanation.	in sustaining the life supporting capacity of aquifers.	

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
				Groundwater restriction levels can be useful They can assist in avoiding land subsidence, aquifer compression, and reduced outflows to surface water and sustaining the life supporting capacity of aquifers. That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made.	
17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Support	The Director-General supports the proposed maximum allocation of 5 million cubic metres per year from the North Otago Volcanic Aquifer.	This allocation will sustain the aquifer's life supporting capacity. The proposed allocation is consistent with the relevant allocations in the proposed National Environmental Standard on Ecological Flows and Water Levels.
30	Matters beyond the scope of the plan change		Not Applicable	The Director-General of Conservation (Director-General) requests that the following amendment be made to Policy 6.4.10A: 6.4.10A To enable the taking of groundwater by: (a) In each aquifer other than any in Schedule 2C or within 100 metres of a connected perennial surface water body, defining a quantity known as the maximum allocation volume, which is: (a)(i) For aquifers in Schedule 4A, (a)(ii) With the exception of those aquifers detailed in (a)(iii), for aquifers other than those in Schedule 4A (a)(iii) For the following aquifers: (1) Manuherikia claybound aquifer, the Manuherikia alluvium aquifer, the Dunstan Flat aquifer and the Earnscleugh Terrace aquifer; (2) The Maniototo tertiary aquifer; and the (3) Cardrona alluvial ribbon and Wanaka Basin Cardrona gravel aquifer; either A limit which is 35% of the calculated mean annual	So that populations of threatened indigenous fish that inhabit waterways recharged in part from the three aquifers listed are not adversely affected by over-allocation.

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
				recharge: or The sum of the maximum annual take for that aquifer at 10 April 2010, less any quantity in a consent where: (A) All of the water taken is immediately returned to the aquifer or connected surface water body; (B) The consent has been surrendered or has expired (except where the quantity has been granted to the existing consent holder as a new consent); (C) The consent has been cancelled (except where the quantity has been transferred to a new consent under Section 136(5)); (D) The consent has lapsed: That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made.	
30	· · · · · · · · · · · · · · · · · · ·		Not Applicable	 The Director-General requests the following amendment be made: 6.4.10A Explanation (paragraph 2) Sustainable allocation of groundwater will be achieved by considering as restricted discretionary activities, those applications where: (i) The individual take would not cause the cumulative take (ii) Relevant aquifer restriction levels (including those in Policy 6.4.10(a)(iii)) are met. That any other consequential amendments to the Regional Plan: Water for Otago required to explain or give full effect to these changes be made. 	To enable the carrying through of the amendments sought by the Director-General to Policy 6.4.10A.

5 Contact Energy Limited

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
19	Setting maximum allocation volumes and	New Schedule 4C	Amend	Add to Schedule 4C as follows or to like effect (new text underlined):	Groundwater takes can cumulatively impact the quantity of water available in surface water bodies where
	restriction levels			4C.1 When setting maximum allocation volumes in Schedule 4A for an aquifer, consideration will be given to the following matters:	hydrologically connected. Although Schedule 4C.1 identifies the interaction with surface water bodies as an issue, this could be read as relating solely to the ecological values of such water bodies.
				(d) Interaction with surface water bodies and their values, including the potential for groundwater takes to have a cumulative adverse effect on existing lawful surface water uses such as hydro-electric generation.	Ensuring water is available for hydro-generation is appropriate and necessary as section 7(j) of the RMA provides for the generation of renewable energy as a matter of national importance. The Regional Policy Statement for Otago, which the ORC must give effect to, also recognises the importance of existing and potential
				Any other consequential changes as are necessary to give effect to the relief sought above.	hydro-generation from the region.

6 Clutha District Council

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
2	Connected groundwater community supplies and minimum flows	Policy 6.4.8	Support	We support the provision for "connected" groundwater takes for community supply as per Schedule 3B to be exempt from minimum flow requirements.	Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.
2	Connected groundwater community supplies and minimum flows	Policy 6.4.8	Amend	Add " <u>Where a community water supply intake is</u> relocated to a point where the same or more water is available for allocation, then the existing rights under Schedules 1B or 3B shall transfer to the new location."	Rule 12.2.2A.1 limits the volume/rate of a community water supply to that authorised as at 28 February 1998. The S32 report says that for the Clydevale/Pomahaka scheme this would be the combined total of the two previous consents, but this is not carried through into the rule. To address this issue in a more general way, where a take is relocated to a new source where there is less allocation pressure, then the existing rights to exemption from a minimum flow should be retained. This would cover Clydevale/Pomahaka and facilitate any future similar moves.
2	Connected groundwater	Policy 6.4.8	Oppose	Retain the phrase "while ensuring sufficient supply	The key purpose of community water supplies is to

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
	community supplies and minimum flows			under low flow conditions so that human health and safety are not compromised" in the explanation.	provide for health and safety, and it would be dangerous and inappropriate to try to ignore this.
12	Community water supplies and restriction levels	Rule 12.2.2A.1	Amend	Paragraph 1, delete ", up to any volume or rate authorised as at 28 February 1998".	The rule limits the volume/rate to that authorised as at 28 February 1998. The background information says that for the Clydevale/Pomahaka scheme this would be the combined total of the two previous consents, but this is not carried through into the rule. This should be made explicit in the rule, or preferably, the restriction removed.
15	Identification of groundwater takes used for community supply	Schedule 3B	Support	We support the addition of the Clydevale/Pomahaka take to Schedule 3B.	Community water schemes need security of supply, as they provide for the health of communities and stock. Rural water supplies also have environmental benefit (more efficient supply and direct stock access to waterways is avoided). Such supplies should have absolute protection under the Water Plan.
15	Identification of groundwater takes used for community supply	Schedule 3B	Amend	We request that Schedule 3B apply to all identified community water supplies and that all references to it only applying to supplies in place at 28 February 1998 be deleted. Schedule 3B - amend reference 13, Clydevale-Pomahaka Water Supply by deleting "volume as at 28/2/98: 2082 m ³ /day".	To reflect community water supply values appropriately. Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.
30	Matters beyond the scope of the plan change		Not Applicable	Schedule 1B - Add "Waipahi River Waipahi Water Supply at G45:196488".	To ensure consistency and certainty. Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.
30	Matters beyond the scope of the plan change		Not Applicable	 We request that Schedule 1B apply to all identified community water supplies and that all references to it only applying to supplies in place at 28 February 1998 be deleted. Schedule 1B Water Supply Values: Paragraph 1, 1st sentence, delete "existing". Paragraph 1, 2nd sentence, delete "have come to". 	To reflect community water supply values appropriately. Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the Water Plan.
30	Matters beyond the scope of the plan change		Not Applicable	Rule 12.1.3.1: Paragraph 1, delete ", up to any volume or rate	Community water schemes need security of supply, as they provide for the health of communities and stock. Such supplies should have absolute protection under the

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
		1100151011		authorised as at 28 February 1998". Principal reasons for adopting [Rules in section 12.1] - Paragraph 4 [6 in version of Water Plan incorporating Council's decisions on proposed plan change 1C], delete "existing". Principal reasons for adopting [Rules in section	Water Plan.
				12.2] - Paragraph 5 [6 in version of Water Plan incorporating Council's decisions on proposed plan change 1C], delete "existing", amend "1B" to "3B".	

7 Horticulture New Zealand and North Otago Vegetable Growers Association

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
4	Purpose and use of restriction levels	New Policy 6.4.10AB	Amend	Add to the Explanation that the extent of the aquifer recharge volumes will be an important part of establishing restriction levels.	The key to setting a minimum level, and hence restrictions, is the extent of the recharge. While an aquifer may be reduced during summer, recharge will return it to higher levels. There needs to be clear reasons why a restriction would be set significantly higher than the extent of the recharge volume.
5	Managing risk of aquifer contamination due to take	New Policy 6.4.10AC	Amend	Amend Policy 6.4.10AC(d) to read: Setting aquifer restriction levels <u>where</u> <u>needed</u> .	This better reflects Policy 6.4.10AB, to define restriction levels where needed.
5	Managing risk of aquifer contamination due to take	New Policy 6.4.10AC	Amend	Amend Policy 6.4.10AC Explanation by adding a new sentence as follows: <u>Monitoring of groundwater quality and</u> <u>levels will be undertaken by the Otago</u> <u>Regional Council</u> .	Policy 6.4.10AC(f) requires monitoring of groundwater quality and levels, but the explanation provides no guidance as to who is to undertake this monitoring.
10	Simplify permitted groundwater take	Rule 12.2.2.2	Amend	Retain Rule 12.2.2.2(b) and (c) and (e) as currently provided for in the Regional Plan: Water for Otago; or Amend Proposed Rule 12.2.2.2(e) to 30,000 litres per day and relocate the clause as clause (a), and renumber	The effects on an aquifer are different to surface water and there should be effects-based reasons for the change, rather than a desire for consistency. Those areas where the current volume is 10 m ³ /day will benefit, while those where the current volume is 30 m ³ /day will be penalised. Those currently using 30 m ³ /day will need to apply for a consent at considerable cost, for no demonstrated

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
				subsequent clauses.	resource management reason.
					The structure of the Rule would be clearer if clause (e) was renumbered as (a) so it is clear from the outset what the permitted volume is.
12	Community water supplies and restriction levels	Rule 12.2.2A.1	Amend	Amend Rule 12.2.2A.1 (a) to read: The need to observe a restriction level <u>and</u> how that level may be met.	Supports the need to consider a restriction level, but the matter of control should enable the ORC to consider how the restriction level should be met. An application for community water supply should specify measures that would be taken to meet restrictions that may be imposed.
13	Considering effects of take on aquifer properties	Rule 12.2.3.4	Amend	Amend Rule 12.2.3.4 as follows: (a) Maximum allocation volume for the aquifer; and <u>or</u> (b) Mean annual recharge of that aquifer; and (c) The effect of the take on the physical properties of the aquifer. Specify the physical properties that would be considered under clause (c).	Unless a maximum allocation volume is specified in the Plan the current default is 50% mean annual recharge. It is unclear why both need to be considered as part of a consent application. The effect of the take on the physical properties of that aquifer could lead to extensive requirements as part of a consent application. The S32 report identifies that restriction levels and maximum allocation volumes protect the physical properties of an aquifer. Where there is not a restriction level and the default maximum allocation volume applies, the ORC should be able to consider the effect of an individual take on the physical properties of an aquifer. However, the current wording of Rule 12.2.3.4(c) does not limit it to this. The matters that would be considered under Rule 12.2.3.4(c) should be specified, so it is clear to an applicant the extent of information required. "Physical properties of the aquifer" is open to interpretation.
14	Calculation of consented take	New Method 15.8.3	Amend	Add an additional point (d) to Method 15.8.3 as follows: Where volumes have been calculated on weekly or litres/second the volumes will be ground-truthed and adjusted if required to reflect actual usage volumes.	The proposed methodology is supported to the extent it does not take the 'worst case' scenario which would severely limit the amounts available for allocation. However, there are concerns extrapolating potentially inaccurate litres/second into an annual volume, making a small error a large error. There should be provision for adjustment from unrealistic figures.

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
				Add to the Explanation: <u>The purpose of the method is to establish</u> <u>the assessed maximum annual take and</u> <u>will not be used to limit an individual</u> consent.	When applied in conjunction with restriction levels the physical properties of an aquifer are protected, so this 'balanced' approach is supported.
17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Amend	Amend Schedule 4A North Otago Volcanic Aquifer to 7 Mm ³ /year.	The justification for not using the technical recommendation of 7 Mm ³ /year is that it does not consider wider matters such as social and economic benefits of taking and using water. However, 7 Mm ³ /year would provide greater economic benefit. The recommended 5 Mm ³ /year is seen to balance community concerns with the technical recommendation. However, the nature of community concerns seem to relate to the ability to fully exercise a consent because of shallow or poorly constructed bores, rather than insufficient water, and this should not penalise future water users. Limiting the volume for that reason provides no incentive for shallow or poorly constructed bores to be better constructed. The technical group has in all likelihood already struck a balance in making their recommendation that the sustainable allocation limit should be set at 7 Mm ³ /year, as these groups often err on the side of caution. Adding a further level of caution seems to be overly conservative in the guise of taking a balanced approach. A balanced approach would be assessing current consented levels (4 Mm ³ /year) and recommending 7 Mm ³ /year. The technical recommendation is already 30% below the aquifer's 50% mean annual recharge. The volume available to be taken is dependent on how assessed maximum annual take is established (Method

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
					15.8.3). If a worst case scenario is used, there would be
					no scope for new takes in the area.
18	Restriction levels in Webster's Well	Schedule 4B	Amend	Provide rationale for restriction levels for groundwater takes in Schedule 4B for the North Otago Volcanic Aquifer and amend if technical rationale supports lower levels.	The S32 report does not provide details as to how the restriction levels in the North Otago Volcanic Aquifer have been established. In the absence of rationale it is difficult to determine whether they are appropriate. How often will levels be reached given current consented and assessed maximum allocation volumes, and the relationship of the restriction levels to annual recharge volumes?
19	Setting maximum allocation volumes and restriction levels	New Schedule 4C	Amend	Retain matters identified in Schedules 4C.1 and 4C.2 but amend 4C.2(c) by adding " <u>and the extent to which the</u> <u>aquifer recovers from maximum</u> <u>allocation volumes</u> ".	Generally the matters listed are supported, but there should be greater consideration of the relationship between the annual recharge volume and the minimum volume before restrictions apply. As stated in respect to Policy 6.4.10AB the key to setting a minimum level, and hence restrictions, is the extent of recharge. While an aquifer level may be reduced during summer, recharge will return it to higher levels. There needs to be clear reasons why a restriction [level] would be set significantly higher than the extent of the recharge volume. Of note is the consideration of physical properties in the aquifer, on which comment has been made in relation to Rule 12.2.3.4.

8 Max Stuart and Cheryl Anne Wilson

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
17	A maximum allocation	Schedule 4A	Amend	Fall from option 5 in paragraph 3.1.3 [of	Option 5 as recommended (5 Mm ³ /year) is unnecessary
	volume for the North			the Section 32 report] and implement	when the other changes are made.
	Otago Volcanic Aquifer			option 2. I support option 2 where the	
				allocation is set at 7 Mm ³ /year.	

9 Kenneth John Keen

Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
12	Community water	Rule 12.2.2A.1	Amend	The Maheno Water Committee	Restriction levels should not apply to community water
	supplies and restriction			Incorporated bore to be exempt from	supplies. A community cannot dry off their cows and not
	levels			such a harsh regime as indicated in	use as much water as they were accustomed to, even
				Schedule 4B.	though they can and do conserve water if requested.

Further submitters

11 The Director-General of Conservation

Submitter	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
No/Ref					
7/13	Considering effects of take on aquifer properties	Rule 12.2.3.4	Oppose	<i>Oppose and retain the relevant wording in the proposed plan change.</i>	The maximum allocation volume for an aquifer is not always the mean annual recharge. The ability to consider both matters should be retained.
7/17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Oppose	<i>Oppose and retain proposed allocation of 5 Mm³/year.</i>	5 Mm ³ /year will better sustain the life-supporting capacity of the North Otago Volcanic Aquifer.
8/17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Oppose	<i>Oppose and retain proposed allocation of 5 Mm3/year.</i>	5 Mm ³ /year will better sustain the life-supporting capacity of the North Otago Volcanic Aquifer.
5/19	Setting maximum allocation volumes and restriction levels	New Schedule 4C	Oppose	<i>Oppose and retain the relevant wording in the proposed plan change.</i>	Renewable energy is but one of eleven RMA section 7 matters, and therefore should not be given preference over any other such matters.

12 Horticulture New Zealand

Submitter No/Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
6/2	Connected groundwater community supplies and minimum flows	Policy 6.4.8	<i>Oppose in part</i>	No decision requested.	While the transferred volume may be the same, or if more water is available for allocation, there is the potential for effects on other users which require assessment. The efficient use of water should also be assessed.
6/2	Connected groundwater	Policy 6.4.8	Support	No decision requested.	It is accepted that takes for community supply should be exempt from minimum flow requirements for human

Submitter No/Ref	Issue	Provision	Position	Decision Requested	Reason for Decision Requested
	community supplies and minimum flows				health and sanitation purposes.
2/4	Purpose and use of restriction levels	New Policy 6.4.10AB	Support in part	No decision requested.	It is reasonable to exempt community water supply takes from restriction levels if the exemption is limited to human health and sanitation purposes.
4/4	Purpose and use of restriction levels	New Policy 6.4.10AB	Oppose	No decision requested.	It is unclear as to what the submitter is seeking to protect through this addition.
4/17	A maximum allocation volume for the North Otago Volcanic Aquifer	Schedule 4A	Oppose	No decision requested.	There is a discussion document on Ecological Flows and Water Levels but no National Environmental Standard (NES) has been proposed, and any NES would be different to that discussion document. Policy should not be promulgated on the discussion document which has no legal status.
5/19	Setting maximum allocation volumes and restriction levels	New Schedule 4C	Oppose in part	No decision requested.	The Schedule already provides for consideration of interaction with surface water bodies and their values, so specific provision for hydroelectric generation is not necessary.