

Comments on Conditions	Susannah Vesey (Reporting officer)	Comments by SHL	SHL – Suggested Amendments to conditions	XXX																								
<p>Killermont (WHL) – Water Diversion & Take Conditions – CRC073115</p>	<p>PLEASE REFER TO PARA 94-95 OF MY ADDENDUM S42A REPORT IN REGARDS TO CHANGES TO THIS CONSENT – REMOVING DIVERSION DUE TO GALLERY INTAKE NOW PROPOSED</p>																											
<p>1. Consent is granted for a term expiring on 30th April 2025.</p>	<p>Duration not generally included as a condition of consent</p>	<p>Agree</p>																										
<p>2. Water shall only be diverted from the Ahuriri River, at or about map reference NZMS 260 H39:547-285, at a maximum rate of 950l/s.</p>	<p>Diversion of additional 200l/s cannot be granted as contravenes WCO.</p> <p>Diversion no longer required – gallery intake now proposed. Reworded condition below:</p> <p>“Water shall only be diverted <u>taken</u> from the Ahuriri River, via a gallery intake, at or about map reference NZMS 260 H39:5475-285, at a maximum rate of 950 750l/s.</p>	<p>Our evidence by Ian McIndoe and submissions from Christian Whata do not reach the same conclusion regarding the water conservation order.</p> <p>Agree consent no longer required for diversion and support condition, with some amendments.</p>	<p>Water shall only be taken from the Ahuriri River, via a gallery intake, at or about map reference NZMS 260 H39:545-285, at a maximum rate of <u>950</u>l/s.</p>																									
<p>3. Water for irrigation shall only be taken between 1 September and the following 30 April and only in accordance with the maximum rate, daily volume (being from 12.01am to 11.59pm) and annual volume (measured between 1 July and the following 30 June) set out in Table A.</p> <p>Table A – Maximum Rates & Volumes</p> <table border="1" data-bbox="192 1465 795 1850"> <thead> <tr> <th>Year</th> <th>Maximum rate of abstraction (litres / second)</th> <th>Maximum Daily Volume (cubic metres / day)</th> <th>Maximum Annual Volume (cubic metres / year)</th> </tr> </thead> <tbody> <tr> <td>1 September 2009 to 30 April 2010</td> <td>750 l/s</td> <td>64,530 m³/day</td> <td>4,074,900 m³/annum</td> </tr> <tr> <td>1 September 2010 to 30 April 2011</td> <td>750 l/s</td> <td>64,530 m³/day</td> <td>6,532,500 m³/annum</td> </tr> </tbody> </table>	Year	Maximum rate of abstraction (litres / second)	Maximum Daily Volume (cubic metres / day)	Maximum Annual Volume (cubic metres / year)	1 September 2009 to 30 April 2010	750 l/s	64,530 m ³ /day	4,074,900 m ³ /annum	1 September 2010 to 30 April 2011	750 l/s	64,530 m ³ /day	6,532,500 m ³ /annum	<p>Two minutes missing in the time period specified.</p> <p>Condition specifies measuring annual volume between 1 July and 30 June – Table has 1 Sept – 30 April. This is confusing.</p> <p>Max rate of abstraction needs to be reduced to allow for 15 l/s for stockwater ensuring rates and volumes within that notified.</p> <p>Period 1 Sept '09 – 30 April '10 passed.</p>	<p>Suggest amending time to 12.00am to 11.59.59pm. Should be consistent reference in each consent.</p> <p>Do not consider that reference to two periods of time (i.e. 1 September to 30 April and 1 July to 30 June) is confusing.</p> <p>First row of table has been deleted as this time has passed.</p>	<p>Water for irrigation shall only be taken between 1 September and the following 30 April and only in accordance with the maximum rate, daily volume (being from 12.00am to <u>11.59.59pm</u>) and annual volume (measured between 1 July and the following 30 June) set out in Table A.</p> <p>Table A – Maximum Rates & Volumes</p> <table border="1" data-bbox="1498 1402 1991 1850"> <thead> <tr> <th>Year</th> <th>Maximum rate of abstraction (litres / second)</th> <th>Maximum Daily Volume (cubic metres / day)</th> <th>Maximum Annual Volume (cubic metres / year)</th> </tr> </thead> <tbody> <tr> <td>1 September 2010 to 30 April 2011</td> <td><u>735</u> l/s</td> <td><u>64,260</u> m³/day</td> <td><u>6,465,000</u> m³/annum</td> </tr> <tr> <td>1 September 2011 to 30 April 2012</td> <td><u>735</u> l/s</td> <td><u>64,260</u> m³/day</td> <td><u>6,465,000</u> m³/annum</td> </tr> </tbody> </table>	Year	Maximum rate of abstraction (litres / second)	Maximum Daily Volume (cubic metres / day)	Maximum Annual Volume (cubic metres / year)	1 September 2010 to 30 April 2011	<u>735</u> l/s	<u>64,260</u> m ³ /day	<u>6,465,000</u> m ³ /annum	1 September 2011 to 30 April 2012	<u>735</u> l/s	<u>64,260</u> m ³ /day	<u>6,465,000</u> m ³ /annum	
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	1 September 2013 to 30 April 2014	750 l/s	64,530 m ³ /day	6,532,500 m ³ /annum			1 September 2013 to 30 April 2014 and every year thereafter	<u>735</u> l/s	<u>64,260</u> m ³ /day	<u>6,465,000</u> m ³ /annum		
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4.	<p>Water allocated in Table A of Condition 3 shall be used only for the spray irrigation of crops and pasture and for the grazing stock (including milking dairy cows) to irrigate 1,100 hectares within a command area of 1,200 hectares on the area of land shown on attached Plan A at or about NZMS 260 H39:615-276.</p>	<p>No Plan A attached. Would be better to name it Plan CRC073115A.</p> <p>Map reference not necessary given the large number of hectares. This area will be illustrated on the map.</p> <p>Some wording needs changing – see below:</p> <p>“Water <u>taken</u> in <u>accordance with</u> Table A of Condition 3 shall be used only for the spray irrigation of <u>1,100 hectares of</u> crops and pasture and for the grazing stock (including milking dairy cows) to irrigate 1,100 hectares within a command area of 1,200 hectares on the area of land shown on attached Plan A at or about NZMS 260 H39:615-276”</p>	<p>Agree map reference not necessary if plan adequately illustrated in Plan A.</p> <p>Agree to revised wording proposed.</p>	<p>Water taken in accordance with Table A of Condition 3 shall be used only for the spray irrigation of 1,100 hectares of crops and pasture for the grazing stock (including milking dairy cows) within a command area of 1,200 hectares on the area of land shown on attached Plan CRC073115A.</p>	
5.	<p>Water for stockwater supply shall be taken between 1 July and the following 30 June and only in accordance with a maximum rate of 15 litres per second, maximum daily volume of 270 cubic metres per day (being from 12.01am to 11.59pm), and a maximum annual volume of 67,500 cubic metres per annum (measured between 1 July and the following 30 June).</p>	<p>Two minutes missing in the time period specified.</p>	<p>Suggest amending time as per previous comments.</p> <p>Condition allows water to be taken all year therefore no need for reference to 1 July to 30 June, although inclusion is not problematic.</p> <p>Condition implies that stockwater must be taken. Suggest inserting “..shall only be taken...”</p>	<p>Water for stockwater supply shall <u>only</u> be taken <u>only</u> in accordance with a maximum rate of 15 litres per second, maximum daily volume of 270 cubic metres per day (being from 12.00am to 12.00am the following day), and a maximum annual volume of 67,500 cubic metres per annum (measured between 1 July and the following 30 June).</p>	
6.	<p>The taking of water in terms of this consent shall cease for a period required by any owners and/or operators of the Waitaki Power Scheme, where the owners and/or operators consider it necessary to undertake maintenance on, to ensure the structural integrity and safety of, or to avoid risk or compromise to the operation of, the Waitaki Power Scheme.</p> <p><i>Advice Note:</i> Any transfer or variation of this consent or its conditions that alters the volume or location of the take (or any replacement application) is likely to require the approval from the holder/s of the consents to operate the Waitaki</p>	<p>Not required as water is not being taken from Waitaki Power Scheme.</p>	<p>Agree condition is not required for this consent.</p>		

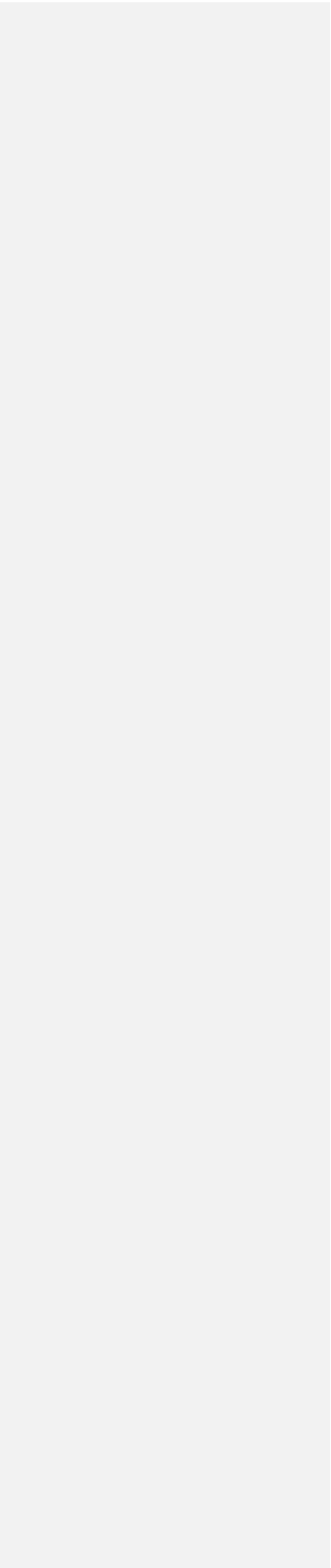
Deleted: between 1 July and the following 30 June and

<p><i>Power Scheme.</i></p> <p><i>Advice Note:</i> <i>The Waitaki Power Scheme means the works including hydraulic control structures, dams, canals, water diversions, penstocks, spill weirs, spill gates, bypass valves, sluice gates, power stations and generating plant, associated ancillary land and structures and resource consents and other rights held by operator/s to utilise the waters and tributary inflows of Lakes Tekapo, George Scott, Pukaki, Ohau, Ruataniwha, Benmore, Aviemore and Waitaki to generate electricity.</i></p>																									
	<p>Minimum flow condition missing</p> <p>See Attachment 4 of s42A report 2A for minimum flow condition.</p>	<p>Consider appropriate to include minimum flow condition as per CRC041788.</p>	<p>The consent holder shall ensure that abstraction occurs such that the following minimum flows are achieved in the Ahuriri River at all times:</p> <table border="1" data-bbox="1457 724 2288 1142"> <thead> <tr> <th>TIME PERIOD</th> <th>GORGE FLOW</th> <th>AHURIRI RIVER MINIMUM FLOW</th> </tr> </thead> <tbody> <tr> <td>At all times</td> <td>25m³/s</td> <td>3m³/s less than gorge flow</td> </tr> <tr> <td>At all times</td> <td>15m³/s – 25m³/s</td> <td>2m³/s less than gorge flow</td> </tr> <tr> <td>1 May to 31 January</td> <td><12m³/s</td> <td>Gorge flow</td> </tr> <tr> <td>1 May to 31 January</td> <td>12m³/s – 15m³/s</td> <td>South Diadem – SH8 – 0.6m³/s less than gorge flow SH8 – Benmore – 1.2m³/s less than gorge flow</td> </tr> <tr> <td>1 February to 30 April</td> <td><10m³/s</td> <td>Gorge flow</td> </tr> <tr> <td>1 February to 30 April</td> <td>10m³/s – 15m³/s</td> <td>South Diadem – SH8 – 0.6m³/s less than gorge flow SH8 – Benmore – 1.2m³/s</td> </tr> </tbody> </table>	TIME PERIOD	GORGE FLOW	AHURIRI RIVER MINIMUM FLOW	At all times	25m ³ /s	3m ³ /s less than gorge flow	At all times	15m ³ /s – 25m ³ /s	2m ³ /s less than gorge flow	1 May to 31 January	<12m ³ /s	Gorge flow	1 May to 31 January	12m ³ /s – 15m ³ /s	South Diadem – SH8 – 0.6m ³ /s less than gorge flow SH8 – Benmore – 1.2m ³ /s less than gorge flow	1 February to 30 April	<10m ³ /s	Gorge flow	1 February to 30 April	10m ³ /s – 15m ³ /s	South Diadem – SH8 – 0.6m ³ /s less than gorge flow SH8 – Benmore – 1.2m ³ /s	
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	<p>Condition allowing for stock water to be taken during times of restriction:</p> <p>“Whenever the flow in the Ahuriri River at map reference NZMS 260 G39:497-320, falls below 25 cubic metres per second, the consent holder shall ensure that the rate and volume of water taken reflects actual stockwater needs at that time.”</p>	<p>Condition supported.</p>	<p>Whenever the flow in the Ahuriri River at map reference NZMS 260 G39:497-320, falls below 25 cubic metres per second, the consent holder shall ensure that the rate and volume of water taken reflects actual stockwater needs at that time.</p>																						
	<p>“Water shall only be taken when an intake gallery has been installed, certified and report provided to Canterbury Regional Council in accordance with condition (x) of CRC0073113”</p>	<p>Agree with proposed condition.</p>	<p>Water shall only be taken when an intake gallery has been installed, certified and report provided to Canterbury Regional Council in accordance with condition 27 of CRC0073113.</p>																						

	Metering				
7.	<p>The consent holder shall, before the first exercise of this consent:</p> <p>a. (i) install a water meter(s) that has an international accreditation or an equivalent New Zealand calibration endorsement suitable for use with an electronic recording device, from which the rate and the volume of water taken can be determined to within an accuracy of plus or minus five percent at a location(s) that will ensure the total take of water from the Ahuriri River is measured; and</p> <p>(ii) install a tamper-proof electronic recording device such as a data logger that shall record (or log) the flow totals every 15 minutes and have the capacity to hold at least one season's (as specified in conditions (3) and (4(a))) data of water taken as specified in clause (b) (i), or which is telemetered, as specified in clause (b)(ii).</p> <p>b. The water meter and recording device(s) shall be set to wrap the data from the measuring device(s) such that the oldest data will be automatically overwritten by the newest data (i.e. cyclic recording); and shall:</p> <p>(i) store the entire season's data in each 12 month period from 1 July to 30 June in the following year, which shall be downloaded and stored in a commonly used format and provided to the Canterbury Regional Council upon request in a form and to a standard specified in writing by the Canterbury Regional Council; or</p> <p>(ii) be connected to a telemetry system which collects and stores all of the data continuously with an independent network provider who will make that data available in a commonly used format at all times to the Canterbury Regional Council and the consent holder. No data in the recording device(s) shall be deliberately changed or deleted.</p> <p>c. The measuring device shall be installed at a site likely to retain a stable rating (i.e. a man-made channel, concrete, steel or fibreglass pipe). Installation shall be in accordance with ISO 1100/1-1981 or equivalent and be undertaken by a suitably qualified person.</p>	<p>See addendum s42A report paragraphs 135-142 (Susannah Vesey's) for discussion re metering. This needs piped conditions. I recommend that the same metering conditions used across all consents for consistency and for easy of monitoring.</p> <p>This consent needs 'piped' conditions.</p>	<p>Our expert advice is that the condition, as proposed, is appropriate.</p>		
8.	<p>The water meter and recording device(s) shall be accessible to the Canterbury Regional Council at all times for inspection and/or data retrieval.</p>				
9.	<p>The water meter and recording device(s) shall be installed and maintained throughout the duration of the consent in accordance with the manufacturer's instructions.</p>				

10.	All practicable measures shall be taken to ensure that the water meter and recording device(s) are at all times fully functional and have an accuracy standard of $\pm 5\%$.				
11.	The consent holder shall, within one month of any water meter and recording device(s) being installed, or within one month of any water meter and/or recording device(s) being replaced, and at five-yearly intervals thereafter, and at any time when requested by the Canterbury Regional Council, provide a certificate to the Canterbury Regional Council (Attention: RMA Compliance and Enforcement Manager) signed by a suitably qualified person certifying, and demonstrating by means of a clear diagram, that: (a) the water meter and recording device(s) has been installed in accordance with the manufacturers specifications; and (b) data from the recording device can be readily accessed and/or retrieved in accordance with conditions 7 and 8.				
12.	The water allocated for irrigation and stockwater in conditions 4 and 5 will be metered, recorded and reported separately to the Canterbury Regional Council in accordance with conditions 7, 8, 9, 10 and 11.	Reference to conditions 7-11 – see comments re metering above.	No need for this condition as provided for in conditions 6-10.		
		Backflow preventer condition should be included in here	Agree	<p>If the irrigation system used in association with taking water in terms of this permit is used to distribute effluent, fertiliser or any other added contaminant, one of the following shall be installed upstream of the point of addition of the effluent, fertiliser or other added contaminant prior to the commencement of irrigation for the purposes stated in this condition:</p> <p>(i) a reduced pressure zone device (RPZD), or</p> <p>(ii) a pressure vacuum breaker (PVB), or</p> <p>(iii) an air gap backflow prevention system.</p> <p>(a) Installation of a RPZD or a PVB shall be in accordance with section 9 (PVB) or section 12 (RPZD) of Australian/New Zealand Standard AS/NZS 2845.1 Water supply - Backflow prevention devices, Part 1: Materials, design and performance requirements, or an equivalent standard.</p> <p>(b) An air gap backflow prevention system shall have an unobstructed vertical air gap separation of at least twice the diameter of the inlet pipe, from the lowest point of the inlet pipe to the flood level rim of the</p>	

				<p>receptacle into which it discharges.</p> <p>(c) Field testing and maintenance shall be carried out of an RPVD or a PVB at commissioning of the use of the system for application of effluent or fertiliser and annually afterwards, in accordance with AS 2845.3 Water supply—Backflow prevention devices, Part 3: Field testing and maintenance, or an equivalent standard.</p> <p>(d) An air gap backflow prevention system shall be tested at commissioning and annually afterwards. Maintenance shall be undertaken as necessary to ensure that backflow prevention is effective.</p> <p>(e) Installation, testing and maintenance shall be undertaken by a suitably qualified person. A report on the annual testing shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within 10 working days of initial commissioning and within 10 working days of each annual testing. Each report shall be accompanied with the name, qualifications and experience of the person who undertook the installation, testing or maintenance.</p> <p>Advice note 1: <i>The discharge of effluent, fertiliser or any contaminant would require authorisation as a permitted activity or via a discharge permit. Contact the Canterbury Regional Council for advice regarding the relevant regional rules.</i></p>	
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		LANDSCAPE MITIGATION PROPOSED IN EVIDENCE BUT NOT INCLUDED IN CONDITIONS	It is not considered appropriate to include conditions for landscaping within a consent for the taking of water.		
13.	The Canterbury Regional Council (Attention: RMA Compliance and Enforcement Manager) shall be informed immediately on first exercise of this consent by the consent holder.		Condition should be amended to require notification within 3 working days to ensure consistency with all other consents.	The Canterbury Regional Council (Attention: RMA Compliance and Enforcement Manager) shall be informed within 3 working days of the first exercise of this consent by the consent holder.	
		Review condition: “The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.”	Agree to general review condition, however should specifically reference s.128 of the RMA.	The Canterbury Regional Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent, pursuant to Section 128 of the RMA, for the purposes of dealing with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage.	
		Lapse date: “The lapsing date for the purposes of section 125 shall be [between 5 years and 5 years three months, date set for each quarter].”	Agree to standard lapsing condition and this should reflect a 10 year timeframe.	For the purposes of Section 125 of the Resource Management Act (1991), this consent shall lapse 10 years from the date it is granted.	