

APPLICANT: CLASSIC PROPERTIES LTD

REPORT OF KERI JOHNSTON

Consent ID	Description	Table 4 Location	Table 5 Location
CRC063106	To take and use water at a rate not exceeding 300 litres per second, and a volume not exceeding 25, 920 cubic metres of water per day, and 2,371,200 cubic metres per year, from the tekapo Canal at or about map reference I38:9615-7774, for spray irrigation of 416 hectares at Maryburn Station, adjacent to Tekapo-pukaki Road.	Lake Tekapo	Upstream of Waitaki Dam but not upstream of the outlets of the glacial lakes.
CRC070406	To take and use water at a rate not exceeding 165 litres per second and a volume not exceeding 14, 256 cubic metres per day, and 1,190,100 cubic metres per year, from from the Tekapo Stilling basin at or about map reference H38:8842-7328 or from the tekpao canal at or about map reference I38:9615-7774, for the purposes of irrigation for the spray irrigation of 234 hectares at Maryburn Station, adjacent to Tekapo-Pukaki Road.	Lake Tekapo	Upstream of Waitaki Dam but not upstream of the outlets of the glacial lakes.
Activity Status:			
<p><u>Rule 3, Table 4 WCWARP:</u> The take is within the allocation limit for Lake Tekapo and the applicant is proposing the required the minimum flow as specified in Table 4 in the WCWARP.</p> <p><u>Rule 6, Table 5 WCWARP:</u> The proposed annual volume is within the allocation limit for "Upstream of Waitaki Dam, but not upstream of the outlets of the glacial lakes.</p> <p>Overall status: Any activity that complies with Rules 2 and 6 is a discretionary activity under Rule 15</p>			

1 PROPOSAL

1. Classic Properties Ltd (hereon in referred to as “the applicant”) seeks two resource consents which will enable the applicant to irrigate a total of 650 hectares using centre pivot irrigation.
2. Two points of take are being sought. The first is from the Tekapo Canal, and it is proposed to irrigate 416ha from this (CRC063106). The second is also from the Tekapo Canal. This would be via the same intake structure of the Pukaki Irrigation Company Ltd (PIC) application to supply several properties (CRC070406). 234ha will be irrigated from this consent.
3. If PIC does not proceed, the entire 650ha will be irrigated from the first intake on the Tekapo Canal.
4. The intake for CRC063106 will feed into a pipeline directly to the irrigation areas, totalling 4.8km. The pipeline on the applicant’s own scheme goes through The Wolds and Irishman Creek properties and under State Highway 8.
5. The applicant also holds resource consent CRC981958, under the name of Martin Murray, to divert and take up to 230L/s from the Mary Burn for irrigation of 30 hectares of pasture. The applicant is also a joint holder of resource consent CRC011554, under the name of Maryburn Irrigation Company Limited, which authorises diversion of 230 litres per second from the Mary Burn for irrigation of a total of 270 hectares, approximately 140 hectares of which are irrigated on the applicant’s property, and the remainder on neighbouring Simons Pass Station. Both existing permits are for borderdyke irrigation west of State Highway 8.
6. In total, if CRC063106 and CRC070406 and are both granted, the applicant will be irrigating 685 hectares of Maryburn Station, 515 hectares of which will be spray irrigation on previously non-irrigated areas, 97 hectares of which will be spray irrigation on previously borderdyke irrigated areas, and 35 hectares of which will remain as borderdyke irrigation. CRC981958 will be surrendered should these consents be granted.
7. All of the area to be irrigated under CRC063106 is non-irrigated land at present.

1.1 Timeline and Summary of Significant Amendments made to the Applications

Timeline	CRC063106
Date of Lodging	7 March 2006
First Notifiable Date	7 March 2006
WCWARP Notifiable Date	20 December 2006
Public Notification	4 August 2007

Timeline	CRC070406
Date of Lodging	10 August 2006
First Notifiable Date	10 August 2006
WCWARP Notifiable Date	17 April 2007
Public Notification	4 August 2007

8. The applications were lodged in 2006.

1.1.1 CRC063106

9. CRC063106 seeks to take water from the Tekapo Canal, and piped to the applicant's property (a distance of 4.8km), irrigating 416 hectares. The intake structure has been designed by Riley Consultants Ltd.
10. It is noted at this point that land use consents are not required for the construction of the intake as it located within a canal and is therefore excluded from requiring a resource consent under TRP and PNRRP rules.
11. In December 2006, an annual volume of 2, 650, 000 cubic metres per year for irrigation purposes was proposed.
12. This was reduced in February 2009 to reflect the applicant's MIC shareholding for this area to 2, 496, 000 cubic metres per year, and then again in July 2009 to Schedule WQN9v2.
13. In April 2009, it was proposed to accept a minimum flow for this application as per Table 4 of the WCWARP (Lake Tekapo).

1.1.2 CRC070406

14. CRC070406 sought to take water from Tekapo Canal (using PICL infrastructure), to irrigate 485 hectares.
15. In April 2007, an annual volume of 2,910,000 cubic metres per year for irrigation purposes was proposed.
16. This irrigation area and annual volume were reduced in February 2009 to reflect to MIC shareholding of the applicant. CRC070406 now seeks an irrigation area of 234 hectares and an annual volume of 1, 404, 000 cubic metres per year. A reduction in area also requires a reduction in the rate of take to 165L/s. The annual volume was reduced again in July 2009 to Schedule WQN9v2.
17. In April 2009, it was proposed to accept a minimum lake level for this application as per Table 4 of the WCWARP (Lake Tekapo).
18. The intake locations have also been updated to reflect the acceptable locations agreed to through the derogation approval process.

1.2 Mackenzie Irrigation Company Shares held

Name: Classic Properties Ltd	Number
Property Shares	1
Irrigation Shares	650

1.3 Derogation Approval

19. Derogation approval was obtained from Meridian Energy Limited on 11 September 2009.

2 BACKGROUND INFORMATION

2.1 Property Details

20. The applicant farms Maryburn Station, adjacent to Tekapo-Pukaki Road, between Lake Tekapo and Twizel.
21. Maryburn Station has 8,375 hectares of pastoral lease and 623 hectares of freehold land.
22. Much of the Maryburn property extends from Lake Pukaki in the west to the Tekapo River in the east. The main portion of the property being between State Highway 8 and the Tekapo River. A plan of the entire property is contained in the Farm Environmental Management Plan.

23. The property currently runs beef cattle and sheep and currently carries 5, 00 breeding ewes, 725 wethers, 2,100 hoggets, 80 rams, 180 breeding cows, 50 rising 1 year old calves, and 6 bulls.
24. Maryburn Station is in the process of Tenure Review of which over a third of the property could be going back to the Crown and the rest Freehold. Through this process, the applicant and the Department of Conservation have already agreed to “who gets what” and the land that remains with the applicant, the Department of Conservation have no interest in, and are fully aware of the applicant’s intentions with regards to irrigation of this land. The process of tenure review has allowed the Department of Conservation to obtain the land that has the values they desire.
25. Approximately 170 hectares is currently irrigated using water from Maryburn Stream (CRC981958 and CRC011554).
26. CRC011554 (held by Maryburn Irrigation Ltd) allows the border dyke irrigation of 140 hectares of the applicant’s property, but reliability of supply can be poor. This was a direct result of an increase in minimum flow on this consent from 170L/s to 340L/s in 2001.
27. Since this time, with not having reliable water, the applicant has had to buy in winter feed and grain, de-stocked 1500 stock units, and overgrazed a lot of the hill and swampy areas.
28. All winter feed and grazing younger animals to completion was a guarantee under the old minimum flow but now there is no guarantee of any winter feed from the irrigation.
29. There was also plenty of grass to flush ewes and these did not have to be fed any winter saved supplements until June. Now, this can be fed as early as late January.

2.2 Water Source

30. The Tekapo Canal carries a substantial volume of water from Lake Tekapo to Lake Pukaki via the Tekapo B power station. The canal is some 26.5km in length and averages a depth of 5.3 metres. The Tekapo silling basin is located just prior to the Tekapo B power-station where the water then discharges into Lake Pukaki. Salmon inhabit the canal and are farmed a few kilometres upstream of the proposed abstraction point. Other fisheries species present in the canal are rainbow and brown trout.

3 SUBMISSIONS

31. A summary of the submissions is as follows:

Resource Consent	Submissions in support	Submission in opposition	Neutral
CRC063106	3	17	2
CRC070406	2	17	2

32. Details of the submissions made in response to all applications that were publically notified at the same time in 2007 are contained in CRC Report 1, Appendix 5. I have reviewed this report and adopt it as a true and accurate summary of the submissions received.
33. Details of the submissions received made individually on these applications are as follows:

Submitter	Issues	Support/neutral/oppose
Mark Urquhart	Supplying water from the canals for irrigation is a very positive step to both sustainable irrigation and a more stable environment.	Support

Submitter	Issues	Support/ neutral/ oppose
Meridian Energy Ltd	Insufficient MIC shares, effects on water quality, flow metering requirements, effects on Meridian infrastructure (Tekapo Canal)	Oppose

34. Derogation approval has been obtained from Meridian Energy Ltd, meaning that sufficient MIC shares have been purchased, and issues relating to Meridian infrastructure have been addressed. The applicant will install a flow meter, and has provided mitigation to ensure that effects on water quality are minor.

4 CRC063106 AND CRC070406 - TAKE AND USE CONSENTS- ASSESSMENT OF ENVIRONMENTAL EFFECTS

4.1 Effects on other water users

Effects on other water users	
Comments	<p>Both applications are new takes, for which MIC shares have been purchased. The applicant has agreed to the minimum lake level for Lake Tekapo as required by Table 4 of the WCWARP.</p> <p>Meridian Energy Ltd control abstractions from the canal and flow rates and therefore reliability of supply is a matter between Meridian Energy Ltd and abstractors.</p> <p>The CRC reporting officer for these applications agrees that effects on other water users are minor.</p>

35. In respect of the intake located at the Tekapo Stilling Basin, there are three other applicants who seek to take and use water at this same location. These are Glentanner Station Ltd, Simons Hill Ltd and Simons Pass Ltd, and all will use the same infrastructure, and form PIC.
36. The other intake located on the Tekapo Canal is for the applicant's own use.
37. Meridian Energy Ltd is the main water user of the Tekapo canal for electricity generation but it also supplies a couple of other existing irrigators upstream of the proposed abstraction. The canal carries a substantial volume of water from Lake Tekapo to Lake Pukaki via the Tekapo B power station. The canal system is artificially managed and controlled by Meridian. Derogation approval has been sought and obtained from Meridian.
38. Mt Cook Salmon farm are also a user of the canal for salmon farming. The farm is located upstream of the PICL scheme intake and downstream of the applicant's own abstraction point. Given the volume of water in the canal, there would be no effect on the salmon farm.
39. Mitigation is proposed restricting the rate of take and volume per week. Given this, effects on other users are considered to be minor.

4.2 Effects on ecosystems

Minimum flow requirements	
Proposed Environmental Flow Regime	Lake Tekapo Lake Levels
Comments	<p>The applicant accepts the minimum lake level for Lake Tekapo as required by Table 4 of the WCWARP.</p> <p>The applicant has proposed minimum lake levels and fish screens in accordance with recommended guidelines.</p> <p>The CRC reporting officer for these applications considers that effects may be more than minor depending on water quality effects.</p>

40. The minimum lake levels proposed by the WCWARP in Table 4 were developed to ensure that the aquatic values of the lake systems are protected. The applicant proposes to accept the minimum lake levels as defined in Table 4 of WCWARP.
41. Meridian Energy Ltd maintains water level recorders on the lakes and this information can be used to ensure compliance with minimum lake levels. The takes will also be appropriately metered
42. The intakes have been designed by Riley Consulting Ltd as part of the derogation approval process, which incorporates a fish screen design in accordance with recommended guidelines, however, the applicant would like to note that didymo has been detected in the Tekapo Canal and the presence of this organism may challenge the performance of any intake and fish screen if it establishes itself.
43. It should be noted that the control of Canada Geese, as recommended by the Canterbury Regional Council reporting officer for these applications, is not an open invitation for any game hunters to access Maryburn Station. Hunter access would need to be strictly undertaken in consultation with the applicant should this be necessary. This matter has potential management and danger issues considered beyond the ability of the Canterbury Regional Council to supervise or control as part of this consent.
44. Given compliance with minimum lake levels and fish screens on intake to meet guidelines, effects on ecosystem values are considered to be minor.

4.3 Effects of inefficient water use

Reasonable and Efficient Use Seasonal Volumes and Land Use	
Land Use	Mixed (cropping, and pasture for fattening deer, sheep and beef cattle)
Area to be irrigated (hectares)	650
Method of application	Spray
Daily <u>net</u> application depth	5mm (assumed 80% efficiency for centre pivot irrigation)
Return period	4 days
Return <u>net</u> period application depth	20mm

Soil profile available water	A range of Pukaki soils. CRC063106 – 100% medium soils (PAW 75mm to 110mm) CRC070406 - 87% heavy soils (PAW > 110mm) and 13% light soils (PAW < 75mm).
Effective Irrigation Season Rainfall	180mm
Seasonal volume required (m³/year)	CRC063106 - 2,371,200 m ³ /year CRC070406 - 1,190,100 m ³ /year
Comments	<p>The proposed annual volumes have been calculated using Schedule WQN9v2, incorporating the parameters described above.</p> <p>Only 99 hectares of the 234 hectares proposed for CRC070406 is “new” irrigation. The allocation to be included has been calculated as follows:</p> <ul style="list-style-type: none"> • CRC011554 has 2,277,282m³ volume for 270ha based on conditions (volume per return period over 155 days irrigating), which equates to 8,434.4 per hectare (843mm seasonal depth). Therefore 140 hectares on Maryburn Station is 1,180,816m³ of the total annual volume for CRC011554. • Since 35 hectares are to remain, the consented volume being retired is 105 hectares, which equals 885,612m³, and therefore the database figure for increase in allocation is 1,190,100m³ minus 885,612m³ =304,488m³. <p>The Canterbury Regional Council reporting officer for these applications is satisfied that effects of inefficient water use are minor.</p>

45. The proposed application depth of 20mm per return period is less than 50% of the water holding capacities expected. This is considered to be an efficient use of water.
46. The proposed annual volumes are based on Schedule WQN9v2.
47. Policy 21 of the WCWARP requires all water takes to be metered. To ensure that this application is consistent with this policy, the applicant proposes to meter their take.
48. Given this, effects of inefficient water use are minor.

4.4 Effects of the use of water on water quality

Effects on Water Quality	
Comments	<p>The CRC reporting officer for these applications is not currently satisfied that effects of water quality are minor.</p> <p>Cumulative effects on water quality have been addressed by Mackenzie Water Resources Limited (MWRL) and are summarized below.</p> <p>Local effects have also been addressed below</p>

49. The calculated nutrient mitigation requirement of the receiving environments determined in the MWRL Study has identified an N and P threshold for each property.

50. "OVERSEER® has been RUN by a QUALIFIED person to model the N and P outputs from the proposed farming system. The results of the model have been incorporated in to the table below. The following table shows that the applicant can meet the property thresholds proposed by the MWRL study.

	Nitrogen Threshold (kg/farm)	Phosphorous Threshold (kg/farm)
MWRL Water Quality Study Property Thresholds	30,077	517
OVERSEER® outputs	20,820	158

51. The applicant is committed to implementing the "Mandatory Good Agricultural Practices" set out within the FEMP (see Appendix E). Implementing these practices ensure that the OVERSEER® results are validated. This along with ensuring that the property thresholds of the WQS (set out in the table above) are not exceeded will ensure that the cumulative effects of the use of water for irrigation on water quality are no more than minor.
52. Whilst the applicant is within their property thresholds, the MWRL Study identified that the applicant still has to consider specific on farm effects and the impacts these activities could have on the local receiving environment. This requires a specifically developed Farm Environmental Management Plan (FEMP) to identify and implement appropriate mitigation measures set out in the draft attached (see Appendix E).
53. At a workshop held in Twizel in August 2009, the applicants met with Ms Melissa Robson of GHD Limited. A "desk top" on farm risk assessment was undertaken. This is considered to be the "starting point" of the FEMP.
54. The workshop identified potential on farm risks specific to each farm along with possible mitigation measures. The on farm risks identified during the desktop risk assessment need to be verified by an appropriately qualified person who has carried out a site visit. It is anticipated that this will occur should the applications be granted. For Maryburn Station, the following potential risks were identified:
- Runoff from winter feed crops
 - Laybacks from waterways from fertiliser application
 - Timing of P fertiliser on border dykes
 - Maryburn Stream and associated wetlands
 - Tailgate water from border-dykes
55. The applicant has committed to carrying out a full on farm risk assessment, proposing mitigation, monitoring and auditing will occur prior to the commencement of the consents. All risks will be addressed in a Farm Environmental Management Plan (FEMP).
56. Given that the N and P thresholds from the MWRL Study can be met, and the applicant's commitment to addressing on farm risks with the implementation of the FEMP, the effects of the use of water on water quality for both the local receiving environment and cumulative effects are considered to be minor.

4.5 Effects on people, communities and recreational value, including landscape

Effects on People, Community and Recreational Values, including Landscape	
Comments	<p>Landscape effects have been addressed by UWAG’s Landscape Architect, Mr Andrew Craig, who considers that this proposal will have a minor effect on landscape values.</p> <p>An appropriate minimum flow is proposed and the applications are within allocation limits set by the WCWARP, therefore effects on people, communities and recreational values are minor.</p> <p>The CRC reporting officer for these applications is satisfied effects are minor subject to conditions.</p>

4.5.1 landscape

57. These are applications for “new” water, however, part of the property is already irrigated and part of a substantially modified rural environment, whereby cultivation, and fencing occur regularly.
58. Greening of this specific area of land therefore occurs seasonally during the irrigation season, which is therefore a temporary effect that is already experienced in this location with the applicant’s existing consent and others nearby.
59. The applicant has a defined area to be irrigated.
60. It is noted that there are likely to be indigenous species present within the proposed area of irrigation (reptiles and endangered invertebrates), which accounts for the fact that there is a RAP proposed for the area between Pivot 2 and Pivot 3, running down to the Tekapo River for CRC063106.
61. Mr Andrew Craig is a landscape architect who is providing general and specific recommendations on behalf of UWAG clients to this hearing. His conclusions reflect that the general effects on the MacKenzie landscape of these applications within the basin will be significantly less than minor, including the irrigation on this property specifically. I adopt his recommendations to the committee.
62. The applicant has proposed the appropriate WCWARP minimum flow condition for the water body from which they have applied to take and use water. A minimum flow is designed to adequately protect people, community and amenity values.

4.5.2 People, communities and recreational values

63. The activities all occur in a rural setting, where the dominant land use is pastoral farming. Given that the proposed activities all occur on private farmland; as such the use of water is unlikely to adversely affect amenity values.
64. The WCWARP sets an annual allocation “cap” for agricultural and horticultural activities within defined areas (Table 5). The applicant has proposed an annual allocation limit for their own resource consents for the use of water, as well as implementing Farm Management Plans, which require existing irrigation systems to be audited and improved where possible, and new systems to be designed and installed by accredited personnel, and implementing initiatives to ensure that water is used wisely.
65. The primary objective of an annual allocation is to ensure that the water is used efficiently and effectively for the land use, soil type and climatic conditions. The applicant has proposed an annual volume that is considered to reflect reasonable and actual use and this is within the allocation limit defined by Table 5.
66. It is also noted that take is within the bounds set in Table 3 of the WCWARP. Table 3 is set to protect in-stream values and effects on other users. It has an “environmental” focus.
67. Therefore, given the applicant’s commitment to ensuring efficient use of water on their properties, and that the take is within allocation limits set to protect in-stream values and other users, it is considered that effects on people and communities will be minor.

4.6 Effects on Tangata Whenua Values

Effects on Tangata Whenua	
Comments	The CRC reporting officer for these applications considers the effects on Tangata Whenua are uncertain and may therefore be more than minor



68. Te Runanga O Ngai Tahu submitted on all applications in the catchment, seeking that all applications be declined.
69. The primary reasons for this were that the applications were considered to be inconsistent with the policies and objectives of the WCWARP, and also at odds with the cultural objectives of the RMA.
70. These applications are entirely within the limits defined by the WCWARP. Te Runanga O Ngai Tahu had considerable input into the creation of the WCWARP.
71. However, it is acknowledged that Te Runanga O Ngai Tahu have a significant relationship with the Waitaki Catchment, and as such, appropriate minimum flow conditions, and management of water quality effects, is proposed by the applicant to ensure that the potential effects on the environment, including tangata whenua values are minor.

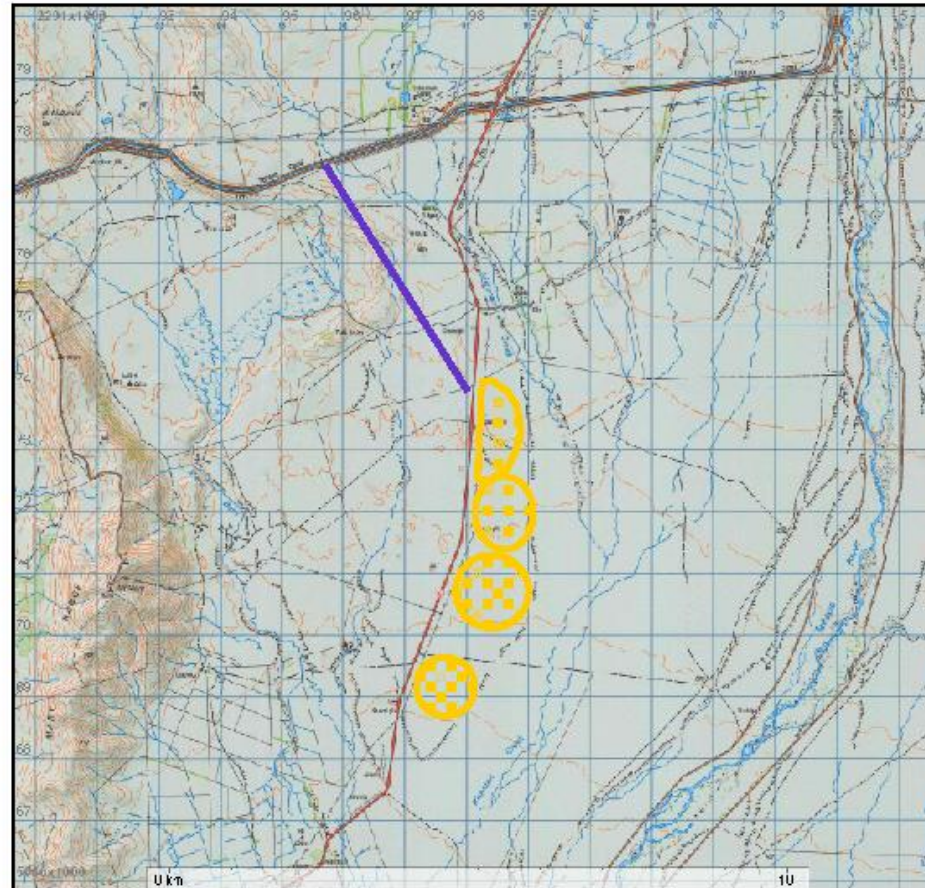
4.7 CONCLUSIONS

72. The potential effects associated with the take and use of water have been assessed and are considered to be minor.

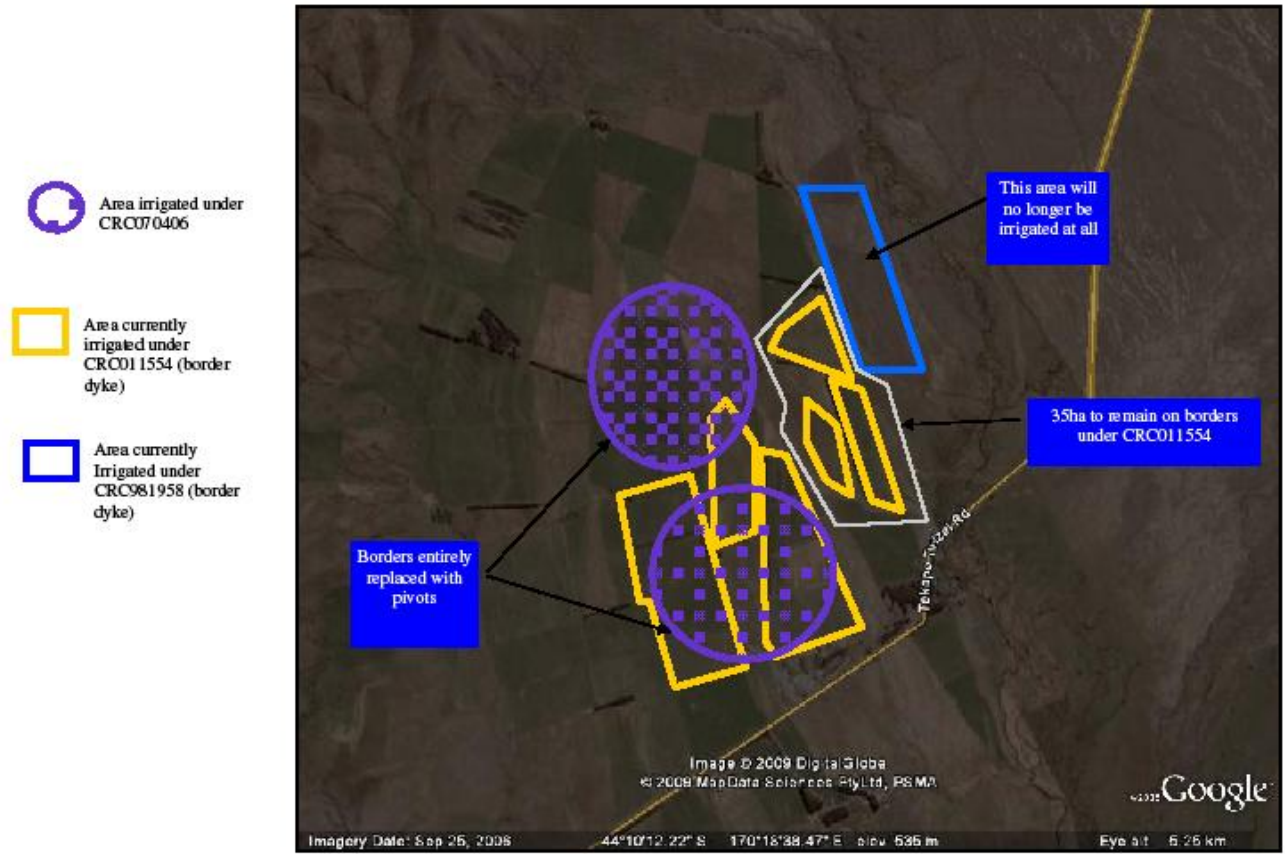
APPENDIX A – LOCATION PLANS SHOWING AREAS TO BE IRRIGATED

CRC063106

-  416ha to be irrigated under CRC063106
-  Pipeline route



CRC070406



APPENDIX B – DEROGATION APPROVAL



11 September 2005

Gillian Enscr
environment Canterbury
PO Box 345
Christchurch

Dear Gillian

Application by Classic Properties Ltd

1. We write to you to outline the basis of Meridian Energy Limited (*Meridian*) providing its derogation approval of the applications numbered CRC063106 and CRC070406 by Classic Properties Ltd. We refer to the letter to Ecan from Chapman Tripp dated the 26th of June 2008 setting out Meridian's position on derogation approvals generally.
2. Meridian has read and considered the applications CRC063106 and CRC070406 by Classic Properties Ltd and provides derogation approval on the following basis:
 - 2.1 Classic Properties Ltd shall only be entitled to take and use water from the Tekapo Canal (at map reference NZMS 260 138:9615-7774) at a maximum rate of 300 litres per second for the spray irrigation of 416 hectares identified in the application;
 - 2.2 The maximum daily volume shall not exceed 75,920 cubic metres per day and the maximum annual volume shall not exceed 2,371,200 cubic metres per annum and this shall be allocated as an agricultural and horticultural activity upstream of Waitaki Dam but not upstream of the outlets of the glacial lakes under Rule 5, Table 5 of the Waitaki Catchment Water Allocation Regional Plan;
 - 2.3 The taking of water outlined in Clause 2.1 and 2.2 shall cease whenever the owner and/or operator of the Waitaki Power Scheme ceases to take, divert and/or discharge water into the Tekapo – Pukaki Canal, unless the owner and/or operator of the Waitaki Power Scheme gives written agreement to the continuation of take;
 - 2.4 The taking of water outlined in Clause 2.1 and 2.2 shall cease whenever the level of Lake Tekapo reaches the minimum lake level specified in Table 4 of the Waitaki Catchment Water Allocation Regional Plan;
 - 2.5 the annual volume provided for in Clause 2.2 shall be time-tranched in accordance with the following Table:

N15237

APPENDIX C – PROPOSED RESOURCE CONSENT CONDITIONS

CRC proposed conditions with tracked changes.

Please note that conditions relating to water quality thresholds and FEMP's are to be added.

CRC063106 – TO TAKE AND USE SURFACE WATER

1. WP01

Water shall only be taken from Tekapo-Pukaki Canal, at surface water abstraction point I38/0078, at or about map reference NZMS 260 I38:9615-7774, at a maximum rate of 300 litres per second, a maximum volume of 103,680 cubic metres within any period of four consecutive days, and an annual volume not exceeding 2,371,200 cubic metres between 1st July and the following 30th June.

Include tranching tables from derogation approval.

2. WP04

Water shall be used only for spray irrigation of 416 hectares of crops and pasture for grazing sheep, beef cattle, deer or non-milking dairy cows, as described in the application, on the area of land shown in attached plan CRC063106, which forms part of this consent.

3. WP09 Fish Screen

4. WP05 Avoid wastage of water

5. WP06 Backflow prevention

6. Whenever the level of Lake Tekapo is at or below 701.8 metres above mean sea level in the months April to September inclusive, and at or below 704.1 metres above mean sea level in the months October to March inclusive, abstraction shall cease.

7. ME02 – from Tekapo Stilling Basin

~~8. ME04 Straight piece of pipe~~ **Will put in datalogger (required to by MIC)**

9. ME05 Installation Certification

10. ME06 Regular Certification

~~11. ME02 – from the irrigation supply pipeline at the boundary of Maryburn Station, such that all flow to Maryburn Station passes the metering device~~ **Not necessary. Take is metered at the location of the take, being Tekapo Canal.**

12. ~~ME04 Meter Type~~ **Repeat of above**

13. ~~ME05 Installation Certification~~ **Repeat of above**

14. ~~ME06 Regular Certification~~ **Repeat of above**

15. AN04 LINZ requirement

16. AD03 Review

17. AD04 Lapse

18. AN03 Transpower setback
19. **Need to include condition as specified in paragraph 2.3 of the derogation approval.**

CRC070406 – TO TAKE AND USE SURFACE WATER

1. WP01
Water shall only be taken from Tekapo-Pukaki Canal, at surface water abstraction point I38/0078, at or about map reference NZMS 260 I38:9615-7774, **or from the the Tekapo Stilling basin at or about map reference H38:8842-7328** at a maximum rate of 165 litres per second, a maximum volume of 57,054 cubic metres within any period of four consecutive days, and an annual volume not exceeding 1,190,100 cubic metres between 1st July and the following 30th June.

Include tranching table from derogation approval

- 2 WP04
Water shall be used only for spray irrigation of 234 hectares of crops and pasture for grazing sheep, beef cattle, deer or non-milking dairy cows, as described in the application, on the area of land shown in attached plan CRC070406, which forms part of this consent.
- 3 WP08 Fish Screen
- 4 WP05 Avoid wastage of water
- 5 WP06 Backflow prevention
- 6 Whenever the level of Lake Tekapo is at or below 701.8 metres above mean sea level in the months April to September inclusive, and at or below 704.1 metres above mean sea level in the months October to March inclusive, abstraction shall cease.
- ~~7 Metering condition – MIC Conditions 12-15 – from Tekapo Stilling Basin~~
- 8 ME02 – from Tekapo Stilling Basin
- ~~9 ME04 Straight piece of pipe~~ **Will put in datalogger (required to by MIC)**
- 8 ME05 Installation Certification
- 9 ME06 Regular Certification
10. ~~Metering condition – MIC Conditions 12-15 – if take from the PIL scheme, at the applicants specific off-take structure from the irrigation supply canal at the boundary of Simons Pass Station, such that all flow to Simons Pass Station passes the metering device. This is only if related to the PIL scheme and not for the applicants individual take from the Tekapo Canal.~~
11. ~~ME04 Meter Type~~ **Repeat of above**
- ~~10 ME05 Installation Certification~~ **Repeat of above**
- ~~11 ME06 Regular Certification~~ **Repeat of above**
- 12 AD03 Review
- 13 AD04 Lapse
- 14 **Need to include condition as specified in paragraph 2.3 of the derogation approval.**

APPENDIX D – PHOTO GALLERY



Centre of pivot at SH8



Pipeline route to 1st centre pivot



Pipeline route – picture taken from the canal



Intake location



Looking south of the intake site

APPENDIX E – DRAFT FARM ENVIRONMENTAL MANAGEMENT PLAN