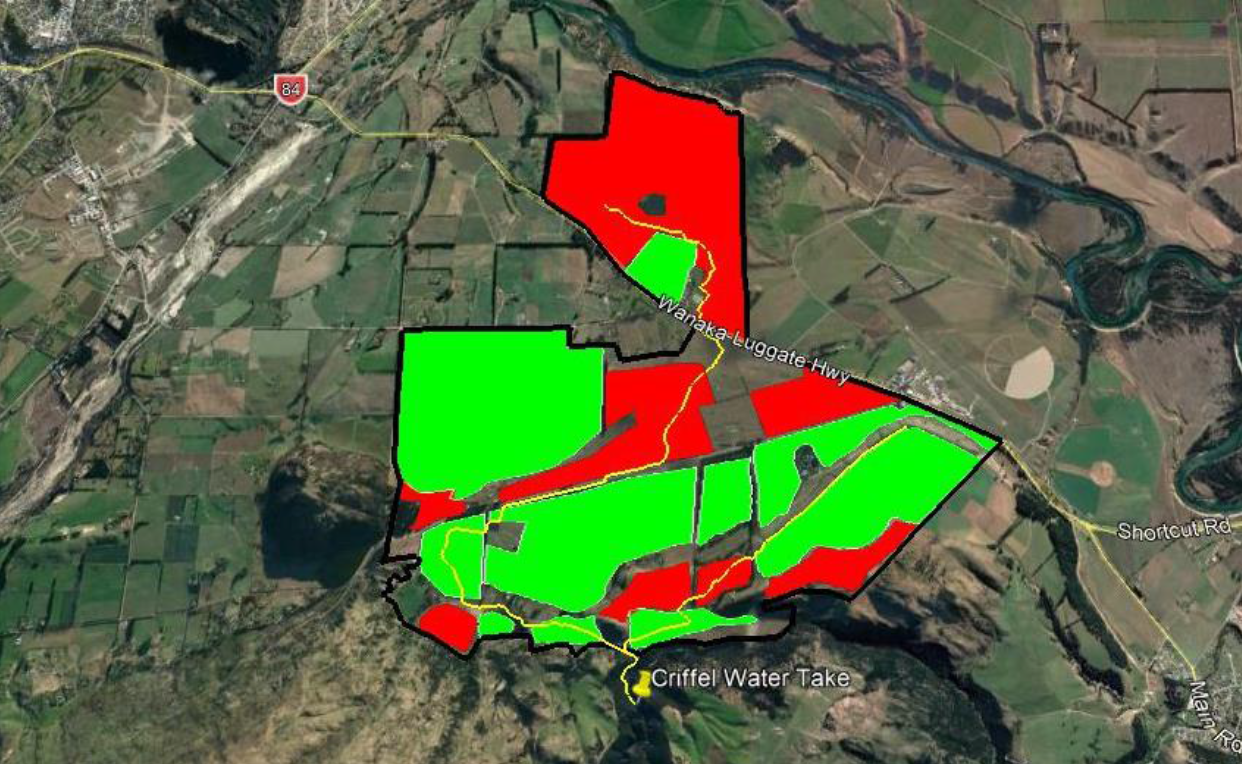
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--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | Our Reference: | |  | | --- | | Consent No. RM16.093.01 | |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  | |  | | --- | | **WATER PERMIT** | | | | | | | |  |  |  |  |  |  |  |  | |  | | --- | | Pursuant to Section 104C of the Resource Management Act 1991, the Otago Regional Council grants consent to: | | | | |  |  |  |  |  |  |  |  | |  |  | | --- | --- | | **Name:** | Criffel Water Limited | | | | |  |  |  |  |  |  | |  |  | | --- | --- | | **Address**: | C/- Gallaway Cook Allan, 276 Princes Street, Dunedin | | | | | | |  |  | |  | | --- | | **Purpose:** To take and use water as primary and supplementary allocation from Luggate Creek for the purpose of irrigation | | **Term:** expiring 1 December 2029 | | | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | | --- | --- | | **Location of Point of Abstraction:** | Luggate Creek, approximately 2 kilometres southeast of the intersection of Smith Road and Mount Barker Road, Luggate | | | | | | | | |  | |  |  |  | |  |  | | --- | --- | | **Legal Description of land at point of abstraction:** | Section 3 SO 300466 | | | | | | | |  | |  | |  | | --- | | **Legal Description of land (s) where water is to be used:** Various within the Criffel Water Limited Command Area, as shown on the plan attached as Appendix 1 to this consent | | | | | | | | | |  | |  |  |  |  | |  |  | | --- | --- | | **Map Reference at point of abstraction:** | NZTM 2000 E1300149 N5038142 | | | | | | |  | |  |  |  |  |  | |  |  |  |  | |  | | --- | | **Conditions** | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  | | --- | --- | --- | | **Specific** | | | | 1. | If this consent is not given effect to within a period of two years from the date of commencement of this consent, this consent must lapse under Section 125 of the Resource Management Act 1991. | | | 2. | (a) The take and use of surface water as primary and supplementary allocation from Luggate Creek at NZTM 2000 E1300149 N5038142 on land legally described as Section 3 SO 300466 for irrigation and irrigation area on land within the Criffel Water Limited Comand Area must be carried out in accordance with the plans and all information submitted with the application dated 19 September 2019.  (b) If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent must prevail. | | | 3. | (a) The rate and quantity of abstraction for primary allocation must not exceed:   * 1. 358 litres per second;   2. 769,417 cubic metres per month;   3. 3,879,273 cubic metres between 1 July in a year and 30 June in the following year.   (b) The rate of abstraction as first block supplementary allocation must not exceed:   1. 170 litres per second;   (c) The rate of abstraction as second block supplementary allocation must not exceed:   1. 80 litres per second; 2. The total rate of abstraction (primary and supplementary) must not exceed: 3. 1,273,017 cubic metres per month; and 4. 6,409,673 cubic metres per year. | | | 4. | No abstraction, other than for stock drinking water purposes, during the period 1 November to 30 April in the following year must occur when flows in the Luggate Creek are less than the minimum flow of 180 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) | | | 5. | No abstraction, other than for stock drinking water purposes, during the period 1 May to 30 October must occur when flows in the Luggate Creek are less than the minimum flow of 500 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) | | | 6. | The first block supplementary take from Luggate Creek must only occur when the flow exceeds 788 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) and will not cause the flow in Luggate Creek to fall below this level. | | | 7. | The second block supplementary take from the Luggate Creek must only occur when the flow exceeds 1038 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) and will not cause the flow in Luggate Creek to fall below this level. | | | 8. | A residual flow of no less than 90 litres per second must be maintained in Luggate Creek immediately downstream of the intake weir (NZTM 2000 E1300149 N5038142) for this permit. | | | 9. | A fish screen must be designed and installed that meets the following requirements:  (a) Water must only be taken when a fish screen with a mesh size or maximum slot width of 3 mm is operated and maintained across the full width of the intake to ensure that fish and fish fry are prevented from passing through the intake screen; and  (b) As far as possible, the screen area must be designed to ensure the calculated average through-screen velocity does not exceed 0.12 m/s if a self-cleaning mechanism is in place, or 0.06 m/s if no self-cleaning mechanism is in place.  (c) The sweep velocity parallel to the face of the screen must exceed the design approach velocity.  Prior to installation of any fish screen, a report containing final design plans and illustrating how the screen will meet the required design criteria and an operation and maintenance plan should be provided to the Consent Authority. | | | 10. | The fish screen required by condition 9 must be maintained in good working order, to ensure that the screen is performing as designed. Records must be kept of all inspections and maintenance and these should be made available to the Consent Authority, on request. | | |  |  | | | 11. | 1. Prior to the exercise of this permit, the consent holder must enter into a Low Flow Rationing Agreement for the Luggate Catchment with the holder of Consent Number RM18.345.01. The objective of the agreement is to manage abstractions within the catchment at all times of low flows to ensure that the Minimum Flows set for the Luggate Catchment are always met. The agreement must include (but not be limited to) the following;   (a) A Ccommunications protocol between the holder of this consent and the holder of Consent No. RM18.345.01 for reducing takes to meet minimum flow requirements as catchment flows drop;  (b) A specified flow level which trigger rationing action;  (c) An agreed rationing methodology (e.g. 1:1 flow sharing, pro-rata reductions, or stepped reductions) so as to ensure the Minimum Flows are not exceeded.  (d) . A reporting process to the Manager Consents, Otago Regional Council to notify the Council when the rationing trigger flow set under (b) above has been met and covering regular reporting on rationing actions over periods of low flow below the set trigger level. | | | 12. | The Low Flow Rationing Agreement is to be provided to the Manager Consents, Otago Regional Council for certification that it appropriately meets the objective set out in Condition 10, and that the low flow trigger level set in Condition 10 (b) above is set at an appropriate flow level. | | | 13. | This permit must be exercised in accordance with the Low Flow Rationing Agreement. | | | 14. | The consent holder must review, and if appropriate, update the agreement prepared in accordance with Condition 12, at any intervals not exceeding 2 years from the date of commencement of this consent. If any amendments are made to the low flow agreement a copy of the updated agreement must be provided to the ORC following completion of the review. | | | **Performance Monitoring** | | | | 15. | (a) The Consent Holder must install a water meter to record the water take, at the point of take, within an error accuracy range of +/- 5% over the meter’s nominal flow range, and a telemetry compatible datalogger with at least 24 months data storage and a telemetry unit to record the rate and volume of take, and the date and time this water was taken.  (b) The datalogger must record the date, time and flow in litres per second.  (c) Data must be provided once daily to the Consent Authority by means of telemetry. The Consent Holder must ensure data compatibility with the Consent Authority’s time-series database.  (d) The water meter must be installed according to the manufacturer's specifications and instructions. There must be enough space in the pipe to allow for verification of the accuracy of the meter under condition (g).  (e) The Consent Holder must ensure the full operation of the water meter, datalogger and telemetry unit at all times during the exercise of this consent. All malfunctions of the water meter and/or datalogger and/or telemetry unit during the exercise of this consent must be reported to the Consent Authority within 5 working days of observation and appropriate repairs must be performed within 5 working days. Once the malfunction has been remedied, a Water Measuring Device Verification Form completed with photographic evidence must be submitted to the Consent Authority within 5 working days of the completion of repairs.  (f) The installation of the water meter, datalogger and telemetry unit must be completed to full and accurate operation prior to the exercise of the consent. The Consent Holder must forward a copy of the installation certificate to the Consent Authority within one month of installing the water meter datalogger and telemetry unit.  (g) (i) If a mechanical insert water meter is installed it must be verified for accuracy each and every year from the first exercise of this consent.  (ii) Any electromagnetic or ultrasonic flow meter must be verified for accuracy every five years from the first exercise of this consent.  (iii) Each verification must be undertaken by a Consent Authority approved operator and a Water Measuring Device Verification Form must be provide to the Consent Authority within 5 working days of the verification being performed, and at any time upon request. | | | 16. | Within 3 years of the commencement of this consent, the Consent Holder must submit to the Consent Authority a Scheme Management Plan. The objective of the Scheme Management Plan is to ensure the efficienty of use and conveyance of water is improved over time and must include (but not be limited to) the following;  (a) A plan identifying the irrigation area at the commencement of this consent with the number of hectares specified.  (b) A plan identifying any expanded irrigation area since the commencement of this consent, with the number of hectares specified.  (c) A plan identifying further expanded areas of irrigation still to be developed with the number of hectares specified.  (d) A description of water use efficiency or conveyance upgrades that have taken place since the commencement of this consent including any;  (i) Upgrades to existing race network which may including piping;  (ii) Establishment of any water storage infrastructure;  (e) A description of water use efficiency or conveyance upgrades that are planned within the next 3 years and the timeframes proposed for their implementation. | | | 16A. | The Scheme Management Plan is to be provided to the Manager Consents, Otago Regional Council for certification that it appropriately meets the objective set out in Condition 16, and the content required under Condition (a) to (e). | | | 17. | The Consent Holder must review and update the plan prepared in accordance with Condition 15, at intervals not exceeding 2 years from the date of implementation of this plan. Any updated plans must be provided to the ORC following completion of the review. | | | 18. | On the 5th Anniversary of the commencement of this consent any expanded areas of irrigation identified within the Scheme Management Plan that have not been developed for irrigation will no longer be able to be developed and the water volume set aside for this future irrigation area must be surrendered by the consent holder and provide written notice to the Consent Authority within 2 months of the 5th Anniversary of the commencement of this consent. | | | 19. | A water use efficiency report must be provided to the Consent Authority in June each year. . The objective of the efficiency report is to ensure the water taken is used efficiently for what has been applied for taking into consideration climatic variability. The report must assess the water use over the previous 12 months in respect of the efficient use of water for the purpose consented. This report must include, but not be limited to:  Area, crop type, number of harvests per year, and timing  Annual summary of water usage (month by month, and related to crops in the ground)  Reasons why use may have varied from the previous year  Information demonstrating irrigation equipment that has been used and decision making regarding efficiency of use (e.g. soil moisture data, irrigation scheduling, meter accuracy checks, computer control of irrigation) and any changes planned for the coming year.  Water conservation steps taken. | | | **General** | | | | 20. | The consent holder must take all practicable steps to ensure that:  (a) the volume of water used for irrigation does not exceed soil field capacity of the irrigated areas,  (b) the irrigation does not cause surface runoff,  (c) leakage from pipes and structures is avoided,  (d) the use of water onto non-targeted areas is avoided,  (e) irrigation induced soil erosion and soil pugging does not occur, and  (f) soil quality is not degraded as a consequence of irrigation. | | | **Review** | | | | 21. | The Consent Authority may, in accordance with Sections 128 and 129 of the Resource Management Act 1991, serve notice on the consent holder of its intention to review the conditions of this consent within 3 months of each anniversary of the commencement of this consent or within two months of any enforcement action taken by the Consent Authority in relation to the exercise of this consent, for the purpose of:   1. determining whether the conditions of this consent are adequate to deal 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, or which becomes evident after the date of commencement of the consent; 2. ensuring the conditions of this consent are consistent with any National Environmental Standards, relevant plans, and/or the Otago Regional Policy Statement; 3. reviewing the frequency of monitoring or reporting required under this consent; 4. Varying the consented quantities and rates of take and monitoring, operating and reporting requirements, and performance requirements to respond to:    1. the results of previous monitoring carried out under this consent and/or:    2. water availability, including alternative water sources;    3. actual and potential water use;    4. surface water flow and level regimes;    5. surface water quality;    6. efficiency of water use;    7. Instream biota, including fish passage and the functioning of aquatic ecosystems; or    8. new requirements for measuring, recording and transmission; | | | **Notes to Consent Holder** | | | |  | | | *1.* | *Water may be taken at any time for reasonable stock water and domestic supply purposes.* | | | *2.* | *The Consent Holder must be responsible for obtaining any relevant information on minimum flows in the Luggate Creek to ensure compliance with Conditions 4, 5, 6 and 7.* | | | *3.* | *If you require a replacement consent upon the expiry date of this consent, any new application should be lodged at least 6 months prior to the expiry date of this consent. Applying at least 6 months before the expiry date may enable you to continue to exercise this consent under section 124 of the Resource Management Act 1991 until a decision is made on the replacement application (and any appeals are determined). Primary allocation may be lost if an application is not made at least 6 months prior to expiry and will be lost if an application is not made at least 3 months prior to expiry. A late application will likely result in the application being treated as supplementary allocation if any such allocation is available.* | | | *4.* | *The consent holder must note that Plan Change 6A of the Regional Plan Water, which is now operative, requires the control of farm contaminants in runoff and leaching of nutrients to groundwater. If such discharges are managed such that the thresholds in schedule 16A are not met by 1 April 2020 then consent will be required for the discharge of contaminants. Information about on farm nutrients must also be kept as of May 2014 for providing inputs to OVERSEER which models leaching of nutrients to groundwater. For other information about obligations under Plan Change 6A refer to the ORC website.* | | | *5.* | *The consent holder is responsible for obtaining all other necessary consents, permits, and licences, including those under the Building Act 2004, the Biosecurity Act 1993, and the Heritage New Zealand Pouhere Taonga Act 2014. This consent does not remove the need to comply with all other applicable Acts (including the Property Law Act 2007 and the Health and Safety in Employment Act 1992), regulations, relevant Bylaws, and rules of law. This consent does not constitute building consent approval. Please check whether a building consent is required under the Building Act 2004.* | | | *6.* | *WEX0162 was approved by the Consent Authority on 17 March 2015 to allow the water measuring device to be installed within a 20 metre radius of NZTM 2000 E1300123 N5038518* | | | | | | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  | | --- | |  | | | | | |  |  |  |  |  |  |  |  |  |  |  | | |
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**Appendix 1: Irrigation Command**

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from Luggate Creek for the purpose of irrigation, stock water and communal domestic use | | **Term:** For a term expiring 1 December 2029 | | | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | | --- | --- | | **Location of Point of Abstraction**: | Site 1: Approximately 6.9 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6)  Site 2: Approximately 6.9 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6)  Site 3: Approximately 1.87 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6)  Site 4: Approximately 2.1 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6)  Site 5: Approximately 2 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6)  Site 6: Approximately 1.89 km west of the intersection of Hopkins Street and Luggate Cromwell Road (State Highway 6) | | | | | | | | |  | |  |  |  | |  |  | | --- | --- | | **Legal Description of land at point of abstraction:** | Lot 2 DP 342167, Lot 2 DP 342167, Part 6 SO 300466, Section 1 SO 300466, Section 1 SO 300466, CL Block XIV Cardrona SD | | | | | | | |  | |  | |  | | --- | | **Legal Description of land (s) where water is to be used:** Various within the Luggate Irrigation Company Limited and Lake McKay Station Limited Command Area, as shown on the plan attached as Appendix 1 to this consent | | | | | | | | | |  | |  |  |  |  | |  |  | | --- | --- | | **Map Reference at point of abstraction:** | Site 1: NZTM 2000 E1300431 N5032779  Site 2: NZTM 2000 E1300431 N5032779  Site 3: NZTM 2000 E1302952 N5037954  Site 4: NZTM 2000 E1302752 N5037568  Site 5: NZTM 2000 E1302729 N5037888  Site 6: NZTM 2000 E1302958 N5037805 | | | | | | |  | |  |  |  |  |  | |  |  |  |  | |  | | --- | | **Conditions** | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | **Specific** | | | | | 1. | If this consent is not given effect to within a period of two years from the date of commencement of this consent, this consent must lapse under Section 125 of the Resource Management Act 1991. | | | | 2. | The take and use of surface water as primary and supplementary allocation from Luggate Creek and Alice Burn must be carried out in accordance with the plans and all information submitted with the application. If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent must prevail. | | | | 3. | (a) The rate and quantity of abstraction for primary allocation must not exceed:   1. 180 litres per second; 2. 422,000 cubic metres per month ;and 3. 2,755,187 cubic metres between 1 July in a year and 30 June in the following year.   (b) The rate of abstraction as first block supplementary allocation must not exceed:   1. 80 litres per second.   (c) The rate of abstraction as second block supplementary allocation must not exceed:   1. 86 litres per second. 2. The total rate of abstraction (primary and supplementary) must not exceed: 3. 926,013 cubic metres per month; and 4. 4,222,573 cubic metres per year. | | | | 4. | No abstraction, other than for stock drinking water purposes, during the period 1 November to 30 April in the following year must occur when flows in the Luggate Creek are less than the minimum flow of 180 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) | | | | 5. | No abstraction, other than for stock drinking water purposes, during the period 1 May to 30 October must occur when flows in the Luggate Creek are less than the minimum flow of 500 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) | | | | 6. | The first block supplementary take from Luggate Creek must only occur when the flow exceeds 788 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199)and will not cause the flow in Luggate Creek to fall below this level. | | | | 7. | The second block supplementary take from the Luggate Creek must only occur when the flow exceeds 1038 litres per second at the SH6 flow monitoring site (located at map reference NZTM 2000:1304656 5038199) and will not cause the flow in Luggate Creek to fall below this level. | | | | 8. | A residual flow of no less than 46 litres per second must be maintained in the Alice Burn immediately downstream of the intake weir (NZTM 2000 E1300149 N5038142) for this permit. | | | | 9. | A fish screen must be designed and installed that meets the following requirements:  (a) Water must only be taken when a fish screen with a mesh size or maximum slot width of 3 mm is operated and maintained across the full width of the intake to ensure that fish and fish fry are prevented from passing through the intake screen; and  (b) As far as possible, the screen area must be designed to ensure the calculated average through-screen velocity does not exceed 0.12 m/s if a self-cleaning mechanism is in place, or 0.06 m/s if no self-cleaning mechanism is in place.  (c) The sweep velocity parallel to the face of the screen must exceed the design approach velocity.  Prior to installation of any fish screen, a report containing final design plans and illustrating how the screen will meet the required design criteria and an operation and maintenance plan should be provided to the Consent Authority. | | | 10. | The fish screen required by condition 9 must be maintained in good working order, to ensure that the screen is performing as designed. Records must be kept of all inspections and maintenance and these should be made available to the Consent Authority, on request. | | | |  |  | | | | 11. | Prior to the exercise of this permit, the consent holder must enter into a Low Flow Rationing Agreement for the Luggate Catchment with the holder of Consent Number RM18.345.01. The objective of the agreement is to manage abstractions within the catchment at all times of low flows to ensure that the Minimum Flows set for the Luggate Catchment are always met. The agreement must include (but not be limited to) the following;  (a) A Ccommunications protocol between the holder of this consent and the holder of Consent No. RM18.345.01 for reducing takes to meet minimum flow requirements as catchment flows drop;  (b) A specified flow level which trigger rationing action;  (c) An agreed rationing methodology (e.g. 1:1 flow sharing, pro-rata reductions, or stepped reductions) so as to ensure the Minimum Flows are not exceeded.  (d) . A reporting process to the Manager Consents, Otago Regional Council to notify the Council when the rationing trigger flow set under (b) above has been met and covering regular reporting on rationing actions over periods of low flow below the set trigger level. | | | | 12. | The Low Flow Rationing Agreement is to be provided to the Manager Consents, Otago Regional Council for certification that it appropriately meets the objective set out in Condition 10, and that the low flow trigger level set in Condition 10 (b) above is set at an appropriate flow level. | | | | 13. | This permit must be exercised in accordance with the Low Flow Rationing Agreement. | | | | 14. | The consent holder must review, and update the agreement prepared in accordance with Condition 12, at any intervals not exceeding 2 years from the date of commencement of this consent. If any amendments are made to the low flow agreement a copy of the updated agreement must be provided to the ORC following completion of the review. | | | | **Performance Monitoring** | | | | | 15. | (a) The Consent Holder must install a water meter to record the water take, at the point of take, within an error accuracy range of +/- 5% over the meter’s nominal flow range, and a telemetry compatible datalogger with at least 24 months data storage and a telemetry unit to record the rate and volume of take, and the date and time this water was taken.  (b) The datalogger must record the date, time and flow in litres per second.  (c) Data must be provided once daily to the Consent Authority by means of telemetry. The Consent Holder must ensure data compatibility with the Consent Authority’s time-series database.  (d) The water meter must be installed according to the manufacturer's specifications and instructions. There must be enough space in the pipe to allow for verification of the accuracy of the meter under condition (g).  (e) The Consent Holder must ensure the full operation of the water meter, datalogger and telemetry unit at all times during the exercise of this consent. All malfunctions of the water meter and/or datalogger and/or telemetry unit during the exercise of this consent must be reported to the Consent Authority within 5 working days of observation and appropriate repairs must be performed within 5 working days. Once the malfunction has been remedied, a Water Measuring Device Verification Form completed with photographic evidence must be submitted to the Consent Authority within 5 working days of the completion of repairs.  (f) The installation of the water meter, datalogger and telemetry unit must be completed to full and accurate operation prior to the exercise of the consent. The Consent Holder must forward a copy of the installation certificate to the Consent Authority within one month of installing the water meter datalogger and telemetry unit.  (g) (i) If a mechanical insert water meter is installed it must be verified for accuracy each and every year from the first exercise of this consent.  (ii) Any electromagnetic or ultrasonic flow meter must be verified for accuracy every five years from the first exercise of this consent.   1. Each verification must be undertaken by a Consent Authority approved operator and a Water Measuring Device Verification Form must be provide to the Consent Authority within 5 working days of the verification being performed, and at any time upon request. | | | | 16. | Within 3 years of the commencement of this consent, the Consent Holder must submit to the Consent Authority a Scheme Management Plan. The objective of the Scheme Management Plan is to ensure the efficienty of use and conveyance of water is improved over time and must include (but not be limited to) the following;  (a) A plan identifying the irrigation area at the commencement of this consent with the number of hectares specified.  (b) A plan identifying any expanded irrigation area since the commencement of this consent, with the number of hectares specified.  (c) A plan identifying further expanded areas of irrigation still to be developed with the number of hectares specified.  (d) A description of water use efficiency or conveyance upgrades that have taken place since the commencement of this consent including any;  (i) Upgrades to existing race network which may including piping;  (ii) Establishment of any water storage infrastructure;  (e) A description of water use efficiency or conveyance upgrades that are planned within the next 3 years and the timeframes proposed for their implementation. | | | | 16A. | The Scheme Management Plan is to be provided to the Manager Consents, Otago Regional Council for certification that it appropriately meets the objective set out in Condition 16, and the content required under Condition (a) to (e). | | | | 17. | The Consent Holder must review, and if appropriate, update the plan prepared in accordance with Condition 15, at intervals not exceeding 2 years from the date of implementation of this plan. Any updated plans must be provided to the ORC following completion of the review. | | | | 18. | On the 5th Anniversary of the commencement of this consent any expanded areas of irrigation identified within the Scheme Management Plan that have not been developed for irrigation will no longer be able to be developed and the water volume set aside for this future irrigation area must be surrendered by the consent holder and provide written notice to the Consent Authority within 2 months of the 5th Anniversary of the commencement of this consent. | | | | 19 | A water use efficiency report must be provided to the Consent Authority in June each year. The objective of the efficiency report is to ensure the water taken is used efficiently for what has been applied for taking into consideration climatic variability. The report must assess the water use over the previous 12 months in respect of the efficient use of water for the purpose consented. This report must include, but not be limited to:  Area, crop type, number of harvests per year, and timing  Annual summary of water usage (month by month, and related to crops in the ground)  Reasons why use may have varied from the previous year  Information demonstrating irrigation equipment that has been used and decision making regarding efficiency of use (e.g. soil moisture data, irrigation scheduling, meter accuracy checks, computer control of irrigation) and any changes planned for the coming year.  Water conservation steps taken. | | | | **General** | | | | | 20. | The consent holder must take all practicable steps to ensure that:  (a) the volume of water used for irrigation does not exceed soil field capacity of the irrigated areas,  (b) the irrigation does not cause surface runoff,  (c) leakage from pipes and structures is avoided,  (d) the use of water onto non-targeted areas is avoided,  (e) irrigation induced soil erosion and soil pugging does not occur, and  (f) soil quality is not degraded as a consequence of irrigation. | | | | **Review** | | | | | 21. | The Consent Authority may, in accordance with Sections 128 and 129 of the Resource Management Act 1991, serve notice on the consent holder of its intention to review the conditions of this consent within 3 months of each anniversary of the commencement of this consent or within two months of any enforcement action taken by the Consent Authority in relation to the exercise of this consent, for the purpose of:   1. determining whether the conditions of this consent are adequate to deal 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, or which becomes evident after the date of commencement of the consent; 2. ensuring the conditions of this consent are consistent with any National Environmental Standards, relevant plans, and/or the Otago Regional Policy Statement; 3. reviewing the frequency of monitoring or reporting required under this consent; 4. Varying the consented quantities and rates of take and monitoring, operating and reporting requirements, and performance requirements to respond to: 5. the results of previous monitoring carried out under this consent and/or: 6. water availability, including alternative water sources; 7. actual and potential water use; 8. surface water flow and level regimes; 9. surface water quality; 10. efficiency of water use; 11. Instream biota, including fish passage and the functioning of aquatic ecosystems; or 12. new requirements for measuring, recording and transmission. | | | | **Notes to Consent Holder** | | | | |  | | | *1.* | *Water may be taken at any time for reasonable stock water and domestic supply purposes.* | | | | *2.* | *The Consent Holder must be responsible for obtaining any relevant information on minimum flows in the Luggate Creek to ensure compliance with Conditions 4, 5, 6 and 7.* | | | | *3.* | *If you require a replacement consent upon the expiry date of this consent, any new application should be lodged at least 6 months prior to the expiry date of this consent. Applying at least 6 months before the expiry date may enable you to continue to exercise this consent under section 124 of the Resource Management Act 1991 until a decision is made on the replacement application (and any appeals are determined). Primary allocation may be lost if an application is not made at least 6 months prior to expiry and will be lost if an application is not made at least 3 months prior to expiry. A late application will likely result in the application being treated as supplementary allocation if any such allocation is available.* | | | | *4.* | *The consent holder must note that Plan Change 6A of the Regional Plan Water, which is now operative, requires the control of farm contaminants in runoff and leaching of nutrients to groundwater. If such discharges are managed such that the thresholds in schedule 16A are not met by 1 April 2020 then consent will be required for the discharge of contaminants. Information about on farm nutrients must also be kept as of May 2014 for providing inputs to OVERSEER which models leaching of nutrients to groundwater. For other information about obligations under Plan Change 6A refer to the ORC website.* | | | | *5.* | *The consent holder is responsible for obtaining all other necessary consents, permits, and licences, including those under the Building Act 2004, the Biosecurity Act 1993, and the Heritage New Zealand Pouhere Taonga Act 2014. This consent does not remove the need to comply with all other applicable Acts (including the Property Law Act 2007 and the Health and Safety in Employment Act 1992), regulations, relevant Bylaws, and rules of law. This consent does not constitute building consent approval. Please check whether a building consent is required under the Building Act 2004.* | | | | | | | | | | | | |  | |  |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  | | --- | |  | | | | | |  |  |  |  |  |  |  |  | **Appendix 1: Irrigation Command**  **area** |  |  | | |