



WAIMAKARIRI
DISTRICT COUNCIL

Land and Water Committee

Agenda

Tuesday 16 February 2021

1.00pm

***Function Room
Rangiora Town Hall
303 High Street
Rangiora***

Members:

Councillor Sandra Stewart (Chairperson)

Deputy Mayor Neville Atkinson

Councillor Kirstyn Barnett

Councillor Al Blackie

Councillor Niki Mealings

Councillor Paul Williams

Mayor Dan Gordon (ex officio)

AGENDA OF THE LAND AND WATER COMMITTEE TO BE HELD IN THE FUNCTION ROOM, RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA ON TUESDAY 16 FEBRUARY 2021 AT 1PM.

Recommendations in reports are not to be construed as Council policy until adopted by the Council

BUSINESS

Page No

1 **APOLOGIES**

2 **CONFLICTS OF INTEREST**

Conflicts of interest (if any) to be reported for minuting.

3 **CONFIRMATION OF MINUTES**

3.1 **Minutes of a meeting of the Land and Water Committee held on Thursday 10 December 2020**

4-10

RECOMMENDATION

THAT the Land and Water Committee:

- (a) **Confirms**, as a true and correct record, the circulated Minutes of the meeting of the Land and Water Committee held on 10 December 2020.

4 **MATTERS ARISING**

5 **DEPUTATION/PRESENTATIONS**

Nil.

6 REPORTS

6.1 Cam River Enhancement Fund Projects Update – S Allen (Water Environment Advisor)

11-15

THAT the Land and Water Committee:

- (a) **Receives** report No. 210203017399.
- (b) **Notes** that there are existing budget allocations in 2020-21 and 2021-22 for the Cam River Enhancement Fund.
- (c) **Notes** the Cam River Enhancement Fund projects of sediment trap and drainage wetlands installation, sediment trap emptying, and bank reshaping to be carried out for 2020-21.
- (d) **Circulates** this report to the Rūnanga Liaison Group, Waimakariri Water Zone Committee, Kaiapoi-Tuahiwi Community Board and Rangiora-Ashley Community Board for information.

7 PORTFOLIO UPDATES

7.1 Biodiversity – Councillor Sandra Stewart

7.2 Land based Indigenous Reserves (Including River Margins) – Councillor Al Blackie

8 QUESTIONS

9 URGENT GENERAL BUSINESS

NEXT MEETING

The next meeting of the Land and Water Committee is scheduled for 1pm, Tuesday 20 April 2021 in the Function Room, Rangiora Town Hall.

BRIEFING

Cam River Freshwater Improvement Fund – S Allen (Water Environment Advisor)

WAIMAKARIRI DISTRICT COUNCIL

MINUTES OF THE MEETING OF THE LAND AND WATER COMMITTEE HELD IN THE FUNCTION ROOM AT THE RANGIORA TOWN HALL, 303 HIGH STREET, RANGIORA ON THURSDAY 10 DECEMBER 2020 COMMENCING AT 9:30AM

PRESENT

Councillors S Stewart (Chairperson), N Atkinson, N Mealings and P Williams.

IN ATTENDANCE

G Cleary (Manager Utilities and Roading), S Allen (Water Environment Officer), K Steel (Ecologist – Biodiversity), G McLeod (Community Greenspace Manager), D Lewis (Land Drainage Engineer), G Bennett (Stormwater Engineer) and E Stubbs (Governance Support Officer).

1 APOLOGIES

Apologies for absence were received and sustained from Mayor Gordon, Councillor A Blackie and Councillor K Barnett.

2 CONFLICTS OF INTEREST

There were no conflicts of interest declared.

3 CONFIRMATION OF MINUTES

3.1 Minutes of a meeting of the Land and Water Committee held on Thursday 8 October 2020

Moved: Councillor Atkinson Seconded: Councillor Williams

THAT the Land and Water Committee:

- (a) **Confirms**, as a true and correct record, the circulated Minutes of the meeting of the Land and Water Committee held on 8 October 2020.

CARRIED

4 MATTERS ARISING

There were no matters arising.

5 DEPUTATION/PRESENTATIONS

Shona Slays from the Landcare Trust was introduced to the Committee.

Note Item 6.3 was taken at this time, the minutes have been presented in accordance with the circulated agenda.

6 REPORTS

6.1 Environmental programmes for the draft Long Term Plan 2021-31 – S Allen (Water Environment Advisor) and K Steel (Ecologist Biodiversity)

K Steel and S Allen presented the report which addressed Long Term Plan funding for environmental programmes. Five main areas were noted, and S Allen informed the Committee that the programme was still evolving with an attempt to keep costs low.

G Cleary gave a brief overview of the budgets to be presented during the Long Term Plan considerations. The Council had previously provided \$100,000 per annum towards environmental programmes, however last year that figure had been halved due to the Council reducing costs to mitigate the impact of the Covid lockdown. This reduced figure had been committed for two years, which was funded on a capitalised basis with the cost spread over a number of years into the future. The Long Term Plan recommendation would therefore request \$50,000 for consideration. It was noted that several units were currently working through their budgets to identify potential savings.

Councillor Stewart enquired if the reductions were intended for the entire length of the Long Term Plan period and G Cleary advised they were.

Councillor Williams queried if the Environmental Education budget would be linked to other departments so resourcing could be shared and provided in house. G Cleary explained, it would not be possible to have a definitive answer on the best way forward for the Environmental Education budget until the Long Term Plan had been finalisation. K Steel commented an option might be to increase the support provided to the Enviro School Programme.

Moved: Councillor Stewart Seconded: Councillor Williams

THAT the Land and Water Committee:

- (a) **Receives** report 200915122094[v2].
- (b) **Recommends** the following proposed budget options to the Council for consideration among other priorities for inclusion in the draft Long Term Plan 2021-2031 for biodiversity, freshwater, natural reserves, district planning, and environmental education.
 - i. Zone Implementation Programme Addendum (\$260,000 per year).
 - ii. Arohatia Te Awa (initially \$210,000, then \$120,000 per year).
 - iii. Biodiversity Contestable Fund (\$725,000 in 2022/23, \$25,000 2023/24, then increasing by \$10,000 per year).
 - iv. Greenspace Natural Reserves.
 - v. Environmental Education (budget to be confirmed).
- (c) **Notes** the proposal that budgets for environmental programmes that are new or expanded, namely the Biodiversity Contestable Fund and Arohatia te Awa programmes, are detailed in the draft Long Term Plan as a consultation topic for the community.
- (d) **Notes** that the recommended budget options will be included in the draft Long Term Plan.

- (e) **Notes** the recommended option for the Zone Implementation Programme Addendum (Option B) is a continuation of a medium-range budget of \$260,000 per year, similar to the approved budget from 2019-21.
- (f) **Notes** the recommended option for Arohata te Awa (Option B) is a budget of \$210,000 for the first year, decreasing to \$120,000 per year over 4 years, with baseline support for a community trust.
- (g) **Notes** the recommended option for the Biodiversity Contestable Fund (Option B) is an initial budget of \$0 increasing to \$95,000 over the span of the Long Term Plan.
- (h) **Notes** the proposed budgets for Silverstream Reserve and Forestdale Wetlands Reserve.
- (i) **Notes** that staff recommend for the continuation of the stormwater education budget and for a biodiversity education budget to be created.
- (j) **Circulates** this report to the Council, Waimakariri Water Zone Committee, Rūnanga Liaison meeting and the Community Boards.

CARRIED

Councillor Stewart noted that an extensive programme had been outlined, and she would like consideration to be given to the renaming of the Biodiversity Contestable Fund to something more informative. She suggested that the drive to reduce costs should not apply to the entire Long Term Plan, however acknowledged that was a decision for the Long Term Plan process.

6.2 Drainage activities in wetland areas – S Allen (Water Environment Advisor)

S Allen spoke to the report which dealt drainage activities in wetland areas. Rules changes had been introduced under the National Environmental Standards for Freshwater (2020) (NES) regarding activities within natural wetlands which included 100 meter buffer areas. This had caused some confusion when trying to interpret the new rules and staff were therefore working to gain clarity from Environment Canterbury (ECan) and Ministry for Environment (MfE).

S Allen explained that the Council drainage and flood protection work came under specified infrastructure which meant that work could be carried out in wetlands if it met certain conditions. However this did not apply to private landowners. She noted the language in the NES was very unclear and confusing. The Council's position during summer was therefore to only continue with work that it was sure was permitted, for example removing watercress rather than removing sediment.

S Allen further explained that as a result of the NES, some scheduled works had to be cancelled. If this work continued to be delayed it would become problematic. The Council was therefore proposing that the work to be done at the Lineside Road - Bramley Road wetland be used as a test case to determine ECan's interpretation of the NES.

Councillor Atkinson queried how the rules would affect the Te Kohaka o Tuhaitara Trust in the Kairaki / Saltwater Creek area. S Allen explained that private works in this wetland areas were not permitted. Councillor Atkinson requested that work be carried out to inform private owners and the Trust of the rules. G Cleary undertook to ensure that relevant information to be circulated to landowners and the Trust.

Councillor Mealings sought clarity regarding the concerns raised by landowners in the Lineside Road–Bramleys Road basin area that the lack of drain maintenance in the past has led to the area becoming a wetland. S Allen advised that was where confusion came in, particularly around build-up of sediment.

Councillor Atkinson noted the difference in treatment and nature i.e. naturally formed versus man-made drainage and wetlands. There were real issues which required further clarification regarding the maintenance of naturally formed versus man-made drainage and wetlands .

Councillor Stewart asked if meetings would be held with the local communities around the Kairaki and Taranaki Streams areas to educate residents of the new regulations, and if any further drainage work was to be completed on Lineside Road. S Allen advised that work had been carried out at Lineside Road inside of the 100 meter buffer. However, there were further work to be completed, hence the Council's proposal of the Lineside Road - Bramley Road wetland being used as a test case.

Councillor Stewart also enquired if it was proposed that landowners should allow ECan staff onto their land in order to complete ground-truthing of sites. S Allen explained that ecologists were able to visit some properties however there were ongoing issues relating to permission being granted.

Councillor Mealings commented on the robust discussion at the Ohoka Rural Drainage Advisory Group meeting regarding wetland rules. She queried if the Community Boards and Rural Drainage Advisory Groups could be supported with an Education Plan so members could be informed. S Allen agreed that these groups were well placed to assist with informing the public, and communication would require a coordinated approach.

Moved: Councillor Stewart Seconded: Councillor Atkinson

THAT the Land and Water Committee:

- (a) **Receives** report No. 201015138673.
- (b) **Notes** that changes to regulations to introduce requirements for certain activities within natural wetlands, and buffer areas of up to 100 meters, under the National Environmental Standards for Freshwater (2020).
- (c) **Notes** that the Council's drainage network meets the definition of specified infrastructure in the National Environmental Standards - Freshwater (2020), with activities that are permitted (vegetation clearance) and discretionary (such as earthworks, and land disturbance) if conditions can be met.
- (d) **Notes** the position of staff for the summer of 2020-21 is to undertake only permitted activities within 100m of a wetland, until further interpretation on the National Environmental Standards for Freshwater (2020) rules can be obtained regarding conditions for discretionary and non-complying activities.
- (e) **Notes** that staff anticipate that confining activities within 100 meter of a wetland to those permitted under the National Environmental Standards for Freshwater (2020) will not impact the Council's 3 Waters Work Programme planned for summer 2020-21.
- (f) **Notes** that staff recommend seeking a consent(s) for selective activities in natural wetland areas that are discretionary, but potentially to cease maintenance for non-complying activities; in order to protect wetland values and also the unlikelihood of a non-complying activity consent application being granted.

- (g) **Notes** that staff will request that Environment Canterbury and the Ministry for the Environment promote the rules of the NES-F (2020) regarding wetlands management for private landowners, particularly in relation to earthworks for drainage.
- (h) **Notes** concerns from landowners of the Lineside Road - Bramley Road area that a wetland mapped by Environment Canterbury is due to deferred drain maintenance by the Council, with requests for rate rebates and/or land purchase received by the Council.
- (i) **Notes** that the Lineside Road - Bramley Road wetland mapped is for intended to undergo an ecological ground survey review by Environment Canterbury ecologist this summer, dependent on obtaining landowner access permissions, which will delineate where the definition for a natural wetland is met.
- (j) **Notes** the need for community education and engagement to support our communities understanding of this issue particularly through Community Boards and the Rural Drainage Advisory Groups.
- (k) **Notes** that community education will be discussed as part of Long Term Plan deliberations.
- (l) **Circulates** this report to the Drainage Advisory Groups, the Community Boards and Waimakariri Water Zone Committee.
- (m) **Notes** staff will consult and engage with effected parties in key areas.

CARRIED

Councillor Stewart commented on the importance of communication with land owners. There had been criticism toward the Council around lack of drainage maintenance. She believed Community Board members should assist with informing landowners. She asked for the ECan wetland mapping to be made freely available to Drainage Advisory Groups as it was important to get the information out.

6.3 **Weed Control and Fencing at Forestdale Wetland – K Steel (Ecologist Biodiversity)**

K Steel highlighted that since the report had been written, there had been discussions with ECan and the owners of the adjoining lot. The adjoining owners had agreed to pay \$6,000 toward the fencing which was the standard for rural fencing under the Fencing Act, 1978. This meant that the application to the Immediate Steps Biodiversity Fund would be reduced to \$30,000.

Following advice from ecologists, the proposal was to erect deer fence on the wetland boundary in order to define the boundary and prevent deer entering the wetland. Significant weed control was proposed which included the removal of Crack and Grey willow.

K Steel commented that Forestdale Wetland was a beautiful significant area and it had the potential to develop into a lovely wetland reserve once the mitigation of the weed control had been achieved.

Councillor Atkinson enquired if the boundary required surveying. K Steel advised that survey pegs were already installed and due to the overspray the boundary was currently clear.

Councillor Williams requested clarification on the proposed funding source. K Steel explained that in terms of ECan's Immediate Steps Biodiversity Funding

scheme each Water Zone Committee had \$100,000 per annum to allocate for protecting and restoring biodiversity in and around freshwater habitats. Generally the funding was allocated to projects on private owned land, but funding had been allocated to project on ECan and Department of Conservation land.

Moved: Councillor Atkinson

Seconded: Councillor Stewart

THAT the Land and Water Committee:

- (a) **Receives** report No. 201106150208.
- (b) **Notes** that in the current financial year staff would like to fence Forestdale Wetland at a cost of \$66,000 and undertake weed control at a cost of \$20,000.
- (c) **Notes** that this report recommends funding from three sources including a ZIPA reallocation, Environment Canterbury operational budget and Immediate Steps Funding.
- (d) **Notes** that Environment Canterbury operations budget contribution is proposed to be \$20,000 towards fencing and \$10,000 for weed control.
- (e) **Approves** the reallocation of \$20,000 from the 2020/2021 ZIPA budget as a Council contribution to the Forestdale Wetlands Project.
- (f) **Notes** that staff will apply to Environment Canterbury's Immediate Steps Biodiversity Fund for \$26,000 towards the capital cost of boundary fencing and \$10,00 towards weed control needed to complete the project.

CARRIED

Councillor Atkinson expressed his support for the project.

Councillor Stewart commented that Forestdale Wetland was a significant wetland, and she was pleased the landowner had come forward to contribute towards the boundary fencing.

Note Item 6.1 was taken at this time, the minutes have been presented in accordance with the circulated agenda.

7 PORTFOLIO UPDATES

7.1 Biodiversity – Councillor S Stewart

- The Waimakariri Zone Committee was continuing to develop a Waimakariri Biodiversity Trust that would investigate further project funding.
- Note the biodiversity NPS to be released in April.

7.2 Land based Indigenous Reserves (Including River Margins) – Councillor A Blackie

Nothing to report at this time.

8 QUESTIONS

Nil.

9 URGENT GENERAL BUSINESS

Ni.

NEXT MEETING

The next meeting of the Land and Water Committee was scheduled to be held at 1:00pm, Tuesday 16 February 2021 in the Function Room, Rangiora Town Hall.

THERE BEING NO FURTHER BUSINESS THE MEETING CLOSED AT 10.07AM

Chairperson

Date

BRIEFING

Canterbury Water Management Strategy work programme for WDC to support the Long Term Plan decision-making process – Sophie Allen (Water Environment Advisor)

(briefing material (Trim 201117154500) will be circulated to members)

WAIMAKARIRI DISTRICT COUNCIL**REPORT FOR INFORMATION**

FILE NO and TRIM NO: DRA-19 / 210203017399

REPORT TO: Land and Water Committee

DATE OF MEETING: 16 February 2021

FROM: Sophie Allen – Water Environment Advisor

SUBJECT: Cam River Enhancement Fund projects update

SIGNED BY:
(for Reports to Council,
Committees or Boards)

Department Manager



Chief Executive

1. **SUMMARY**

- 1.1 This report summarises the recent progress with Cam River Enhancement Fund projects, and provides an update on the amount remaining in the fund of \$180,629 (as of 1 February 2021).
- 1.2 Bank stabilisation works along the North Brook, planting of springs at Fernside, and three sediment traps were installed on the Tuahiwi Stream under the Cam River Enhancement Fund in 2018-2020.
- 1.3 The drainage maintenance and minor works in waterways consent (CRC195065, CRC195066, CRC195067) was granted in December 2020, which will enable Waimakariri District Council (WDC) to progress Cam River Enhancement Fund projects this autumn 2021. Approved projects will be staged over a few years due to staff resourcing constraints.
- 1.4 A land use consent is also required from WDC for Cam River Enhancement Fund works. Draft conditions have been prepared that align with the Environment Canterbury (ECan) conditions of CRC195065 where possible. This consent is anticipated to be issued in February 2021.
- 1.5 The creation of three sediment traps, three drainage wetlands and one bank stabilisation project is proposed for autumn 2021, as well as the cleaning of three existing sediment traps along Waituere Stream (also known as Tuahiwi Stream).
- 1.6 An Environment Assessment Notice template and flowchart for the use of consent CRC195065 has been prepared, with the first works anticipated to be notified to ECan in February 2021, to be carried out in April-May 2021. There are multiple and approval notification requirements, such as is a 30 working day notification period, before which works can commence if there is spring-fed baseflow in a waterway.
- 1.7 WDC staff are preparing an Environmental Assessment Notice for each project, which includes supplying Erosion and Sediment Control Plans, contaminated land assessment, and cultural management assessment where required, among other analyses.

Attachments:

- i. Notice of Resource Consent Decision CRC195065 Global Consent to use land for watercourse maintenance (TRIM 201214170292)

- ii. Cam River Enhancement Fund – overview maps (TRIM 210204018191)

2. **RECOMMENDATION**

THAT the Land and Water Committee:

- (a) **Receives** report No. 210203017399.
- (b) **Notes** that there are existing budget allocations in 2020-21 and 2021-22 for the Cam River Enhancement Fund.
- (c) **Notes** the Cam River Enhancement Fund projects of sediment trap and drainage wetlands installation, sediment trap emptying, and bank reshaping to be carried out for 2020-21.
- (d) **Circulates** this report to the Rūnanga Liaison Group, Waimakariri Water Zone Committee, Kaiapoi-Tuahiwi Community Board and Rangiora-Ashley Community Board for information.

3. **BACKGROUND**

- 3.1. The Cam River Enhancement Fund was established by an Environment Court ruling in July 2001. This ruling required the consent holder (WDC) to provide an amount of \$25,000 per year over a five year period for habitat restoration in the Cam River system. The purpose of the fund, as noted in the Environment Court decision, was to be used “for habitat restoration in the Cam River system ... as agreed between North Canterbury Fish and Game Council and the consent holder in consultation with the Department of Conservation.”
- 3.2. It was on this basis that a Cam River and Tributaries Enhancement Committee was informally set up with Council staff. Given their interest in the Cam River, representatives of Te Ngāi Tūāhuriri Rūnanga, the Cam River Working Party, and Environment Canterbury were also invited to attend.
- 3.3. Initially landowner applications were accepted for the fund, with some budget allocated to planting and fencing projects. A strategic catchment approach, however, was decided to be undertaken by the Committee. The Committee commissioned a scoping strategy of the Cam River and its tributaries from Dr Henry Hudson. A final version of this report was delivered in 2017 (TRIM 170410035142[v2]).
- 3.4. Based on the Dr. Henry Hudson Scoping Strategy, funding was allocated to projects, and detailed engineering design of elements was completed over the period 2018-20.
- 3.5. In the 2018-20 period, three sediment traps were installed along the Tuahiwi Stream, and bank stabilisation was carried out at three sites along the North Brook and Middle Brook. Riparian and wetland plant species were planted alongside springs on a Fernside farm in spring 2020.
- 3.6. An update report on the Cam River Enhancement Fund was presented to the Land and Water Committee on 11 June 2020 (TRIM 200526062002[v2]).

4. **ISSUES AND OPTIONS**

Projects for autumn 2020-21

- 4.1. The projects selected for autumn 2021 are;
 - 4.1.1. Sediment Traps 3, 6, and 13 (ST3, ST6, ST13) on the South Brook, North North Brook, and South South Brook respectively.

- 4.1.2. Drainage wetlands (DW2, DW3, DW4) at the outlet of ephemeral tributaries along the Cam River.
 - 4.1.3. Bank stabilisation works on the Cam River (BS1).
 - 4.1.4. Emptying of three existing sediment traps in the Waituere Stream (also known as Tuahiwi Stream)
- 4.2. Refer to attachment ii for maps of these locations.

Resource Consents CRC195065, CRC195066 and CRC195067

- 4.3. The consent conditions from Canterbury Regional Council for drainage maintenance and minor works in waterways are complex, with multiple requirements before commencement of works on the ground. Therefore WDC staff have selected projects in the programme for this autumn where there are fewer complexities such as a not within a trout spawning area, wetland area or silent file area, where further analysis is required in the Environmental Assessment Notice.
- 4.4. An 'Environmental Assessment Notice' (EAN) is a key part of the approval to carry out works. Each project will have an individual EAN which assesses many potential environmental and cultural effects and proposes management. A staff template of an EAN has been prepared, which will enable more rapid production of other EANs. The EAN included appendices of a Fish Management Plan and an Erosion and Sediment Control Plan. An additional Cultural Management Plan is also required in some cases, if works are within a silent file area.
- 4.5. There are multiple conditions with notification timeframes, such as to ECan, Te Ngāi Tūāhuriri Rūnanga and North Canterbury Fish and Game. The longest notification timeframe is 30 working days to Te Ngāi Tūāhuriri Rūnanga for minor works within an area with spring baseflow. This conditions is expected to apply to most, if not all, projects for the Cam River Enhancement Fund, so sets the earliest timeframe for when works can commence as April 2021.

Landowner negotiations

- 4.6. Some of the sediment trap and drainage wetland sites are on private land, where landowner agreements are yet to be negotiated by WDC staff. All sites have been visited by WDC staff, often in the presence of the landowner, then designs prepared, however WDC staff were waiting for consent approvals to proceed with landowner agreements.

WDC Land Use Consent

- 4.7. A land use consent under the District Plan has been identified to also be required for Cam River Enhancement Fund works. WDC consent planning have provided draft conditions for review, which are aligned as far as practicable with the ECan consents for the works, for consistency and to reduce complexity of using both consents.
- 4.8. The Management Team have reviewed this report and support the recommendations.

5. COMMUNITY VIEWS

5.1. Groups and Organisations

- 5.1.1. The Cam River Enhancement Fund subcommittee(, under which budget allocation was made but was disestablished in 2019), has had representation from North Canterbury Fish and Game, Te Ngāi Tūāhuriri Rūnanga, the Cam River Working

Party, as well as the agency representatives from the Department of Conservation and Environment Canterbury.

5.2. Wider Community

5.2.1. The wider community has not been specifically consulted on the Cam River Enhancement Fund.

6. IMPLICATIONS AND RISKS

6.1. Financial Implications

6.1.1. There are existing budget for Cam River Enhancement Fund works within the remaining \$180,629. It is anticipated that there will be some limited funds remaining after completion of works from allocated budgets works in 2020-21 and 2021-22. See Table 1 for estimated costs for 2020-21 works, noting however that consent conditions may incur extra costs that have not been scoped, such as erosion and sediment control measures. WDC staff will review and seek allocation of any remaining budget with the Land and Water Committee in late 2021-22.

Table 1: Indicative project costs for 2020-21

Project description	Location	Estimated expenditure (earthworks. Fencing and planting where required)
Sediment traps	mainstem, North Brook and South Brook	\$7,400
Drainage Wetlands	Cam mainstem	\$13,950
Bank Reshaping	Cam mainstem, North Brook, South Brook	\$6,250
Waituere (Tuahiwi) Stream sediment traps emptying of existing traps	Waituere (Tuahiwi) Stream	\$TBC

6.1.2. Any reallocation of budget for the Cam River Enhancement Fund would require agreement from North Canterbury Fish and Game, and consultation with the Department of Conservation, to give effect to the Environment Court ruling.

6.2. Community Implications

6.3.1. The Cam River Enhancement Fund projects will benefit the community by providing improved water quality and amenity values in the Cam River catchment. The promotion of this work with the community can be supported through provision of information about the background and progress of these projects.

6.3. Risk Management

6.3.1. This report is for information only. COVID-19 pandemic response requirements and resource consent condition requirement and notification timelines could impact on the delivery of planned projects.

6.4. Health and Safety

6.4.1. Suitable safety procedures will also be determined for contractors working within the Cam River main stem or its tributaries once a contractor is confirmed.

7. **CONTEXT**

7.1. **Policy**

7.1.1. This matter is not a matter of significance in terms of the Council's Significance and Engagement Policy.

7.2. **Legislation**

7.2.1. No relevant legislation.

7.3. **Community Outcomes**

7.3.1. There is a healthy and sustainable environment for all

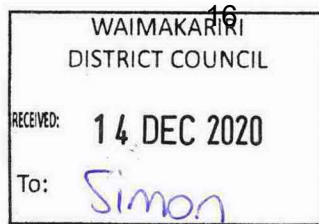
- Harm to the environment from the impacts of land use, use of water resources and air emissions is minimised.
- Cultural values relating to water are acknowledged and respected.

7.3.2. Public spaces and facilities are plentiful, accessible and high quality

- People enjoy clean water at our beaches, rivers and lakes.
- There are wide-ranging opportunities for people to enjoy the outdoors.

7.4. **Delegations**

7.4.1. No delegations apply. This report is for information only.



10 December 2020



Waimakariri District Council
Attn To: Simon Collin
Private Bag 1005
Rangiora 7440

Customer Services
P. 03 353 9007 or 0800 324 636
200 Tuam Street
PO Box 345
Christchurch 8140
E. ecinfo@ecan.govt.nz
www.ecan.govt.nz

Dear Sir/Madam

Notice of Resource Consent Decision

Record Number(s): CRC195065
Applicant Name: Waimakariri District Council
Activity Description: To use land for watercourse maintenance.
Decision: Granted

Decision

The decision of Environment Canterbury is to grant your application on the terms and conditions specified in the attached resource consent document. The reasons for the decision are:

1. The activity will achieve the purpose of the Act.
2. The activity is consistent with the policies of the regional plan or national policy statement.

Commencement of consent

Your resource consent commences from the date of this letter advising you of the decision.

If you object to or appeal this decision, the commencement date will then be the date on which the decision on the appeal is determined.

Lapsing of consent

This resource consent will lapse if the activity is not established or used before the lapse date specified on your consent document. Application may be made under Section 125 of the Resource Management Act 1991 to extend this period.

Your rights of objection and appeal

▪ Objection to Decision

If you do not agree with the decision of the consent authority, you may object to the whole or any part in accordance with Section 357A(1)(g) of the Resource Management Act 1991 (RMA). Notice of any objection must be in writing and lodged with Environment Canterbury **within 15 working days** of receipt of this decision in accordance with Section 357C(1) of the RMA.

- **Right to Appeal**

You may appeal the decision of the consent authority to the Environment Court in accordance with section 120 of the RMA. The notice of appeal must be lodged with the Court within 15 working days of receipt of this decision, at PO Box 2069, Christchurch. A copy of the appeal should also be forwarded to Environment Canterbury within the same timeframe.

If you are in any doubt about the correct procedures, you should seek legal advice.

- **Objection to Costs**

Section 357B of the RMA allows you to object to costs. Your objection must be received **within 15 working days** of the date on which you receive your invoice. Your objection must be in writing and should clearly explain the reasons for your objection as detailed in section 357C of the RMA.

Monitoring of conditions

It is important that all conditions of consent are complied with, and that the consent holder continues to comply with all conditions, to ensure that the activity remains lawfully established.

You can find online Information regarding the monitoring of your consent at www.ecan.govt.nz/monitoringconsent.pdf.

Charges, set in accordance with section 36 of the Resource Management Act 1991, shall be paid to the Regional Council for the carrying out of its functions in relation to the administration, monitoring and supervision of resource consents and for the carrying out of its functions under section 35 of the Act.

Further information about your consent

For some activities a report is prepared, with officer recommendations, to provide information to the decision makers. If you require a copy of the report please contact our Customer Services section. You can find online information about your consent document at www.ecan.govt.nz/yourconsent.pdf.

Queries

For all queries please contact Customer Services Section quoting your CRC number noted above.

Thank you for helping us make Canterbury a great place to live.

Yours sincerely



Consents Planning Section

RESOURCE CONSENT CRC195065*Pursuant to Section 104 of the Resource Management Act 1991***The Canterbury Regional Council (known as Environment Canterbury)**

GRANTS TO: Waimakariri District Council

A LAND USE CONSENT (S13): To use land for watercourse maintenance.

COMMENCEMENT DATE: 10 Dec 2020

DATE CONSENT NUMBER ISSUED: 10 Dec 2020

EXPIRY DATE: 10 Dec 2035

LOCATION: various locations, Waimakariri District

SUBJECT TO THE FOLLOWING CONDITIONS:**0 Definitions:**

For the purpose of this resource consent, words have the same meaning as defined by the Resource Management Act, or Canterbury Land and Water Regional Plan, unless stated otherwise.

Scope**1 The works shall only be carried out directly by the Waimakariri District Council, or by contractors under its direct control and be limited to:****a. Maintenance works, consisting of:**

- i. the removal of weed using an excavator weed rake and silt bucket;
- ii. the removal of silt, using an excavator silt bucket or solid bucket, channel base raking (removal via mobilisation), or Silt Wand;
- iii. the removal of channel side vegetation including trees, gorse, broom and exotic woody weed species;
- iv. the maintenance of grass and other vegetation by mowing and weed trimming;
- v. the clearing or jetting of stormwater pipes and culverts;

- vi. the repair and maintenance of channel sides, retaining walls, paths, utilities and structures, including removal of debris blocking structures; and
- b. Minor works, consisting of:
- i. channel base regrading, re-profiling and enhancement for the purpose of habitat improvement, including the creation of riffles and other features that provide hydraulic variation and rock placements;
 - ii. permanent realignment of watercourses to the extent of changing the original bed configuration up to 100 percent of the original flowing channel width, measured at mean annual low flow, for the purpose of creating meanders, improving habitat diversity, creating riffles within a meander, bank reshaping or two stage channel creation to form a new bed profile or to create sediment trapping areas on the margin;
 - iii. channel base and channel side protection with rock riprap and gabions and stabilisation with the use of felled trees;
 - iv. creation and maintenance of sediment and debris traps in the channel base, channel side and riparian margin planting;
 - v. channel side excavation, shaping and profiling, placement of geotextiles and weed mats;
 - vi. temporary channel realignment to divert flows around works areas;
 - vii. creation, erection, maintenance and removal of fences;
 - viii. the placement, reconstruction, extension, and removal of structures in the channel base and channel side area including headwalls (concrete, gabions and rock riprap), retaining walls (timber, gabion and masonry), and structures that will enhance indigenous biodiversity;
 - ix. the placement of:
 - a. culverts; and
 - b. amenity structures in the riparian margins above the annual fullest flow, including footpaths, footbridges, access bridges, steps, boardwalks, and amenity works such as artworks, interpretation panels and seating;
 - x. the maintenance, reconstruction, extension, and removal of amenity structures in the riparian margins above the annual fullest flow, including footpaths, steps, boardwalks, and amenity works such as artworks, interpretation panels and seating;
 - xi. trenching or subsurface tunneling for the purpose of placing network utility network pipes;

- xii. the exposure of groundwater as a result of excavation and reshaping of network utility drains and/or pipes for the purpose of watercourse enhancement, public access and public utility minor works.

Advice note: The discharge of herbicides is not covered by this consent, but by CRC120402.

- 2 Notwithstanding condition (1), the following activities are not covered by this consent:
- a. Activities in water and irrigation races;
 - b. The placement of new culverts, or reconstruction of bridges and culverts in the bed of a river that replace existing structures (for example to replace existing fords, bridges or culverts), or the maintenance or replacement of existing bridges and culverts where these activities are already covered by existing consents CRC030621, CRC030622, CRC030623;
 - c. Works in the coastal marine area;
 - d. Any activities set out in Part 3 of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 other than permitted activities
- 3 The works carried out in accordance with condition (1) shall be located within the legal boundaries of the Waimakariri District as shown on Plan CRC195065A which forms part of this consent.

Advice note: Please be aware that this consent may not be the only authorisation required to undertake the activities authorised by this consent. The consent holder is required to obtain permissions and easements needed from landowners and others in order to secure access to and/or undertake any works authorised by this consent on land that is not owned by the consent holder.

Pre-works requirements

- 4 The consent holder shall prepare, maintain and comply with a Drainage Maintenance Management Plan ("the Plan"), which shall include, at a minimum, the following:
- a. A Decision Framework for deciding what management methodology is the most suitable;
 - b. Practice and procedural guides for the following maintenance activities:
 - i. maintenance of conveyance capacity
 - ii. mechanical weed cleaning (including returning aquatic fauna to the waterbody)

- iii. repair and stabilisation of watercourse channel sides, including retaining walls and timber drains
 - iv. chemical weed clearing (noting that this is not authorised by this consent, but by CRC120402)
 - v. hand weed clearing, and mowing and weed trimming
 - vi. sediment removal
 - vii. management of cleanings
 - viii. management of willow
 - ix. management of other problem weeds
 - x. culvert jetting
- c. Design and practice guidance for “minor works”, including but not limited to:
- i. naturalisation of waterbodies
 - ii. bank stabilisation
 - iii. creation of in-stream habitat
 - iv. repair and maintenance of in-channel physical structures
 - v. providing for climate change
- d. Procedures for minimising the effects of waterbody management activities, including but not limited to:
- i. erosion and sediment control
 - ii. management of fish passage
 - iii. management of fish spawning habitat
 - iv. management of bird nesting habitat
 - v. management of Mahinga Kai, Wahi Tapu and Wahi Taonga
 - vi. management of potentially contaminated sites or activities
 - vii. providing for climate change
- e. General Requirements:
- i. refuelling and accidental spills procedure
 - ii. traffic management
 - iii. managing fire hazard
 - iv. health and safety
 - v. requirements for monitoring and reporting

- f. Maps of waterbodies that are maintained by the Waimakariri District Council,
 - g. Detailed procedures for notifying Te Ngai Tuahuriri Runanga with respect to ongoing maintenance works, including liaison regarding the maintenance of waterbodies that contain eels;
 - h. The Plan shall be submitted to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, and Waimakariri District Council counterpart, to Te Ngai Tuahuriri Runanga (MKT.Admin@ngaitahu.iwi.nz), and to North Canterbury Fish and Game Council within three months of the commencement of this consent;
 - i. The Plan may be amended during the period of this consent as appropriate to improve management and contingency procedures.
 - i. any amendments to the Plan shall be submitted to the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, at least two weeks prior to the commencement of amendments.
 - ii. where there is any conflict between the Plan and consent conditions of this consent, the consent conditions shall prevail.
- 5 Prior to commencing works, a copy of this resource consent, the Plan required by condition (4), the erosion and sediment control plan prepared for the works in accordance with condition (12), and contaminated site management plan if required by condition (14) shall be given to all persons undertaking activities authorised by this consent.
- 6 Prior to commencing any minor works activity an “Environmental Assessment Notice” shall be completed for the works, to assess the environmental risks and triggers at or close to the site, and identify how effects due to these risks and triggers will be mitigated or avoided. The Environmental Assessment shall include, but not be limited to, consideration of:
- a. Regulatory and Statutory requirements
 - b. Environmental effects on
 - i. rivers, lakes and streams
 - ii. groundwater and springs
 - iii. flora and Fauna – including fish passage
 - iv. protected vegetation
 - v. heritage or Cultural artefacts
 - c. Contaminated land
 - d. Sediment control plans
 - e. Landscaping plans

- f. Property ownership
- g. Surface water takes down-stream of the activities

Any mitigation measures or alterations to the works methodology identified by the Environmental Assessment Notice shall be implemented during the works.

- 7
 - a. Where the proposed works include excavation over the Coastal Confined Aquifer, and the excavation will be within one metre of the highest groundwater level, a suitably qualified and experienced person shall undertake an assessment of the potential for puncturing the confined aquifer before works commence.
 - b. The assessment shall include available sources of desktop assessment including, but not limited to, records from nearby bores, records from previous excavation works in the area, and consideration of nearby springs, water takes and waterbodies.
 - c. If the person undertaking the assessment determines that there is not sufficient desktop information available, test pitting shall be undertaken at the proposed excavation location to confirm the potential for the works intercepting groundwater and puncturing the confined aquifer.
 - d. If the assessment indicates that there is a moderate or high risk of puncturing the confined aquifer during the proposed works, the construction methodology shall be altered so that the risk is low.
 - e. The assessment undertaken in accordance with this condition shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, at least ten working days prior to works commencing, for confirmation that the assessment has been undertaken using suitably robust information and the risk of aquifer puncture is low.
 - f. Works shall not proceed until confirmation has been received from the Canterbury Regional Council that the methodology and conclusions of the aquifer puncture assessment are robust. Notwithstanding this, if ten working days have passed and no correspondence has been received regarding the aquifer puncture assessment the works may commence.
- 8
 - a. Not later than May of each year, the consent holder shall submit a programme of proposed minor works for the upcoming financial year, including the location, description and scale of the works, to:
 - i. the Canterbury Regional Council, attention: Regional Leader Monitoring and Compliance and attention: Regional Engineer;
 - ii. Te Ngai Tuahuriri Runanga (MKT.Admin@ngaitahu.iwi.nz); and
 - iii. North Canterbury Fish and Game Council;

- b. Upon request by the Canterbury Regional Council, the consent holder will supply additional information regarding specific projects to demonstrate the mitigation and management of the proposed works. This information may include, but shall not be limited to:
- i. plans and specifications;
 - ii. environmental Assessment Notice assessing the environmental context of one or more projects;
 - iii. construction methodology description including staging of works;
 - iv. details of the erosion and sediment control measures to be implemented during the project, if necessary as per the Environmental Assessment Notice;
 - v. detail of contamination present in the area and extent of disturbance of this contamination;
 - vi. proposed site rehabilitation;
 - vii. information to demonstrate how cumulative effects that may arise from planned WDC projects in the same geographical area or catchment will be managed.
- 9 The parties listed in condition (8)(a) shall be given 10 working days to provide feedback on the proposed programme of minor works for that year. If any of the parties advised in accordance with condition (8) advises of concerns about the proposed work programme, the consent holder shall provide a written response to each of the points raised, to Canterbury Regional Council, attention: Regional Leader Monitoring and Compliance and the party who provided the feedback, within 10 working days of receiving the feedback.
- Advice note:** If, upon receiving the additional requested information described in condition (8), the Canterbury Regional Council advises the consent holder that they consider any of the minor works proposed in that year's programme are beyond the scope of this consent or do not comply with the conditions of this consent, and agreement on changes cannot be reached, the consent holder will apply for a variation to this consent, or a project specific consent.
- 10 The consent holder shall notify Te Ngai Tuahuriri Runanga (MKT.Admin@ngaitahu.iwi.nz) in writing, not less than 30 working days prior to the commencements of any "minor works" adjacent to or on the bed of waterbodies that have a year round base flow. The notification shall include details of the works to be undertaken, and include a plan showing the location of the proposed works.

- 11 If requested by Te Ngai Tuahuriri Runanga in response to any notice sent under condition (8) or (10), a management plan shall be prepared for "minor works" within a Silent File area and provided to Te Ngai Tuahuriri Runanga for confirmation that the plan adequately manages potential adverse effects on cultural values. Works shall not commence until Te Ngai Tuahuriri Runanga have confirmed that the plan manages cultural values. The management plan may involve observation of site disturbance by a Cultural Monitor for the first four hours of works, or other period of observation as agreed between Te Ngai Tuahuriri Runanga and the Waimakariri District Council.
- 12 Erosion and Sediment Control Plans (ESCPs) shall be prepared for all "minor works" activities that may generate sediment, in accordance with the Erosion and Sediment Control Toolbox.
- a. The ESCP shall include as a minimum the following:
 - i. contour information at suitable intervals;
 - ii. erosion and sediment controls to be used;
 - iii. supporting calculations;
 - iv. catchment boundaries for the sediment controls;
 - v. location of the works;
 - vi. details of construction method to be employed including timing and duration;
 - vii. a programme for managing exposed soil area including progressive stabilisation considerations (if relevant); and
 - viii. monitoring and maintenance schedules.
 - b. Copies of ESCPs submitted to or prepared by/for the consent holder shall be made available to the Canterbury Regional Council on request.
 - c. An ESCP may be amended at any time. Any amendments shall be:
 - i. only for the purpose of maintaining or improving the efficacy of the erosion and sediment control measures and shall not result in reduced discharge quality; and
 - ii. consistent with the conditions of this resource consent; and
 - iii. submitted in writing to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance upon request.
- 13 Prior to the commencement of any minor works or unscheduled maintenance an assessment shall be undertaken to assess the risk of encountering contaminated soil or groundwater conditions at the site. The assessment shall follow the procedure set out in the Plan required by condition (4) of this consent and the Ministry for the Environment's Contaminated Land Management Guidelines numbers 1 and 5, and:

- a. Utilise the Listed Land Use Register (LLUR) and any other databases maintained by the Canterbury Regional Council, and property files the Waimakariri District Council holds for the site to support the assessment, and include checking with Canterbury Regional Council's Contaminated Sites team to determine if the site/activity has been previously investigated if potential contamination of the site is indicated in this desktop review by any current or historic activity at the site.
- b. Determine whether the information available indicates that it is more likely than not that an activity listed on the Hazardous Industries and Activities List or Schedule 3 of the Land and Water Regional Plan has been undertaken on, or may have caused contamination of the proposed works area, including any activity located within a 50 metres radius of any proposed minor works or maintenance activity.
- c. If any activities have been identified in accordance with condition (13)(b), and a previous investigation of the site has been undertaken that identifies that contaminant concentrations are at or below background concentrations, or states that it is highly unlikely that the activity poses an environmental risk, the proposed works may commence.
- d. If no previous information is available to identify the risk to the environment from the activity identified in accordance with condition (13)(b), or if the investigations indicate that contamination is present in excess of local background concentrations a suitably qualified and experienced person (SQEP) shall undertake an assessment to:
 - i. assess whether there is a risk to water quality and/or ecology in the waterbody, due to contamination, if the works are undertaken; and
 - ii. either provide recommendations for avoiding or mitigating the risk identified to water quality and/or ecology; or state if avoiding or mitigating the risk is not possible.

Advice Note: A SQEP is defined as a person with a relevant tertiary qualification and at least 10 years' experience in contaminated land matters, including the identification and assessment of contaminated soils and groundwater.

14.
 - a. If the assessment undertaken in accordance with condition (13) identifies that there is a risk to the environment from contamination if the proposed works are undertaken but it can be mitigated, a Contaminated Site Management Plan (CSMP) shall be prepared by a SQEP for the works to set out how the effects of the works will be mitigated.
 - b. If the assessment undertaken in accordance with condition (13) identifies that there is a risk to the environment from contamination if the proposed works are undertaken but it cannot be mitigated the works shall not commence.
 - c. The CSMP prepared in accordance with condition (14)(a) shall be provided to the Canterbury Regional Council, Attention: Team Leader Contaminated Sites, at least one month prior to the works commencing.

Advice note: If the assessment undertaken in accordance with condition (13) identifies that the risk cannot be mitigated the works may not be undertaken under this consent, and a separate consent will be required for the proposal from the Canterbury Regional Council.

Limits

- 15 a. No works shall be undertaken in any of the following:
- i. high Naturalness Waterbodies mapped in the Canterbury Land and Water Regional Plan;
 - ii. vegetation and Habitat sites identified on Plan CRC195065B which forms part of this consent;
 - iii. wetlands, as defined by the Wetland delineation protocols associated with the National Policy Statement for Freshwater Management 2020;
 - iv. any stream reach that is usually maintained by the Canterbury Regional Council unless:
 - a. The work is minor work as described by this consent, and is for ecological or environmental improvements; and
 - b. Approval for the proposed works has been provided in writing by the Canterbury Regional Council Area Engineer: Northern.
- b. No disturbance of the soil of the banks or the bed shall be undertaken within:
- i. 10 metres of any dam, weir, bridge, or network utility pole, pylon or flood protection vegetation; or
 - ii. 150 metres from any water level recorder; or
 - iii. 50 metres from any defence against water;

unless there is evidence that permission has been obtained from the owner of the infrastructure, or Waimakariri District Council is the owner of the infrastructure.

Advice note: Condition (15)(a)(iii) is not intended to prohibit any work within wetlands that is a permitted activity under the Freshwater National Environmental Standards

- 16 a. This consent does not authorise:
- i. works in the flowing channel during the trout/salmon spawning period of 1 May to 31 October for all watercourses at the spawning sites identified on Plan CRC195065C which forms part of this consent and any updated spawning maps required by condition (50).

- ii. works in any flowing channel or on the banks of the waterbody at identified inanga spawning sites shown on Plan CRC195065C which forms part of this consent and any updated spawning maps required by condition (50) during the period of 1 February to 31 May;
- iii. works in the flowing channel in any identified inanga spawning site between 1 January and 31 January, with the exception of weed removal;

unless a work site specific spawning survey by a suitably qualified ecologist indicates that there are no spawning sites present that would be adversely affected by the works.

- a. Any report on a site specific survey undertaken in accordance with condition (16) shall be supplied to the North Canterbury Fish and Game Council and the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, not less than 10 working days prior to the commencement of the works.
- b. Notwithstanding condition (16)(a), if advice from a qualified ecologist is that immediate eradication of a pest weed species must be undertaken during trout, salmon or inanga spawning periods, targeted works may be carried out, limited to the specific plants to be removed. Any such works shall be undertaken in consultation with a qualified ecologist, with experience in inanga habitats, and shall minimise effects on the inanga spawning habitat so far as practicable.

- 17 No vegetation used for flood control or bank stabilisation on any waterbody managed by the Canterbury Regional Council shall be disturbed, removed, damaged or destroyed without the prior written permission of the Canterbury Regional Council Area Engineer: Northern.
- 18 There shall be no introduction or planting of vegetation in, on, or under the bed of any lake or river that is of a species listed in the Biosecurity NZ Register of Unwanted Organisms or the Canterbury Pest Management Plan.
- 19 Riparian planting shall not inhibit hydraulic capacity once the plants are fully grown unless the proposed activity is consistent with "the Plan" decision framework and provided, where necessary, any loss of capacity from planting in one location is offset by addition of increased capacity in an adjoining or adjacent section of waterbody at a suitable location.
- 20 If works are proposed within 100 metres of a gravel riverbed between 1 September and 31 January, a survey of the area within 100 metres of the works shall be undertaken by a suitably qualified ecologist no more than eight days before the works are carried out. If the ecologist's survey confirms that there are no colonies of indigenous birdlife nesting or rearing their young in river bed gravels, or any nesting or breeding indigenous bird listed as "Threatened – Nationally Critical, Nationally Vulnerable or Nationally Endangered", or "At Risk" under the New Zealand Threat Classification System, which may be disturbed by the works, the works may commence.

- 21 Excavation works for the purpose of trenching or subsurface tunnelling for the placement of network utility pipes shall be to a maximum of two metres below the channel base of the watercourse.
- 22 Subsurface tunnelling for the placement of network utility pipes shall be at a depth below the bed of a watercourse to minimise the likelihood of drilling fluid escape which could enter a waterbody.
- 23 Designs for channel base regrading, re-profiling, realignment and enhancement, including the creation of riffles and other features that provide hydraulic variation for ecological purposes and rock placements, shall:
- a. Be carried out by suitably qualified engineers and landscape architects with input from the Waimakariri District Council's Water Environment Advisor, or another suitably experienced ecological expert;
 - b. Have a hydraulic analysis shall be carried out and the results incorporated in the design to ensure that the hydraulic capacity of the new profile will be no less than the hydraulic capacity of the existing channel, and have no adverse effect on flood capacity upstream or downstream of the works;
 - c. Not result in:
 - i. a net loss of stream length at the sub-catchment scale;
 - ii. a decrease in sinuosity at the sub-catchment scale;
 - iii. a decrease in hydraulic diversity at the sub-catchment scale (i.e. loss of pool-run-riffle habitat); or
 - iv. a decrease in riparian shading unless removal of shading from nuisance exotic or weed pest species is offset by increasing shading from indigenous species, indigenous riparian vegetation cover or indigenous riparian vegetation diversity (allowing for growing time).
- 24 All new structures, footbridges, access bridges, and culverts shall be designed by a suitably qualified person and positioned so that they do not restrict flows in waterbodies or cause an increase in water levels upstream of the structure in a five percent annual exceedance probability (AEP) event. The soffit shall provide at least 400 millimetres freeboard above the high water level of a two percent AEP rainfall event, including provision for climate change forecast to occur during the design life of the structure.
- 25 All structures erected, extended or maintained under this consent shall be positioned to ensure that:
- a. They do not cause the diversion of floodwaters or the exacerbation of flooding and shall not obstruct or alter the navigation of the bed or waterbody, and

- b. They do not cause or exacerbate erosion and scour of the bed or banks of the waterbody.

- 26 All structures shall be designed and constructed to meet the requirements of the Resource Management (National Environmental Standards for Freshwater) Regulations 2020 (NES 2020), and also parts 12 (Waterway Erosion Protection) and 13 (Waterway Structures) of the Christchurch City Council's Waterways, Wetlands and Drainage Guide. Where these requirements are in conflict the NES 2020 shall take precedence.

Advice note: Department of Conservation requirements regarding responsibilities under the Freshwater Fisheries Regulations 1983 must be met by the consent holder.

Works management

- 27 Works shall be undertaken in accordance with:
- a. The Plan required by condition (4) of this consent; and
 - b. The ESCP prepared for the works in accordance with condition (12); and
 - c. All works for which a CSMP has been prepared in accordance with condition (14.a) shall be undertaken in accordance with that plan.
- 28 The works shall not be carried out on Sundays or public holidays and shall only occur between the hours of 7:00am and 6:00pm inclusive.
- 29 The works shall not prevent existing vehicle access to any properties adjacent to the works, or to any lawfully established structures, including defences against water, without prior permission from the asset owner.
- 30 Any works that will take longer than one month to complete shall be undertaken in stages along the watercourse to minimise the effects on the watercourse.
- 31 No materials shall be placed in or adjacent to a waterbody that may leach contaminants into the waterbody.
- 32 All practicable steps shall be undertaken to avoid products and materials used during the works entering a stormwater system or waterbody. Products and materials used during the works shall be stored securely or removed from the site overnight. All:
- a. Spoil;
 - b. Demolished structures;

- c. Woody vegetation larger than 50 millimetres in diameter except that being retained on the site for ecological purposes; and
- d. Other waste material from the works;

shall be removed from the site on completion of works.

- 33 All practicable measures shall be implemented to prevent spills of fuel or any other contaminant within the site.
- a. Fuel shall be stored securely or removed from site overnight.
 - b. There shall be no refuelling of vehicles and machinery in the watercourse. In the event of a spill of fuel or any other contaminant, the spill shall be cleaned up as soon as practicable and measures shall be taken to prevent a reoccurrence.
 - c. The consent holder shall inform the Canterbury Regional Council, Attention: RMA Compliance and Enforcement Manager, within 24 hours of a spill event, and shall provide the following information:
 - i. the date, time, location and estimated volume of the spill;
 - ii. the cause of the spill;
 - iii. the type of contaminant(s) spilled;
 - iv. clean up procedures undertaken;
 - v. details of the steps taken to control and remediate the effects of the spill on the receiving environment including;
 - vi. an assessment of any potential effects of the spill; and
 - vii. measures to be undertaken to prevent a reoccurrence.
- 34 All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation and ecological values.
- 35 Equipment and machinery:
- a. Shall not be washed down on the channel sides of any waterbody;
 - b. Shall not enter a waterbody unless all practicable measures have been undertaken to minimise vehicles and machinery entering a waterbody; and
 - c. Shall be free of plants and plant seeds prior to use in a waterbody.
- 36 To prevent the spread of Didymo or any other aquatic pest, the consent holder shall ensure that activities authorised by this consent are undertaken in accordance with the Biosecurity New Zealand's hygiene procedures.

Advice Note: The most current version of these procedures can be accessed from the Biosecurity New Zealand website or Environment Canterbury Customer Services.

- 37
- a. The works shall not prevent the passage of fish, or cause the stranding of fish in pools and channels.
 - b. Following the removal of weed, the weed removed shall be placed on the banks of the waterbody immediately after removal to allow aquatic fauna to return to the waterbody in accordance with the procedures for aquatic fauna escape and relocation set out in the Drainage Maintenance and Management Plan required by condition (4).
 - c. The consent holder shall adopt the best practicable options to minimise the potential for any cut or removed vegetation or sediment to be mobilised downstream, or inhibit flood flows, which may include, but is not limited to:
 - i. avoiding placing any cut or cleared vegetation, sediment or debris in a position such that it may subsequently enter a waterbody, or where it may inhibit flood flows;
 - ii. where practicable undertaking work during dry settled weather;
 - iii. using measures downstream of the works to capture any loose material; and
 - iv. removal of loose material from the waterbody.
- 38
- In the event of an accidental interception or unanticipated levels of artesian flows, all practicable measures shall be undertaken to remedy or mitigate any change in aquifer pressure, water quality or temperature. This shall include, but not be limited to:
- a. The contractor shall immediately cease all works within the immediate area of excavation that caused the interception of the artesian flows;
 - b. The contractor shall:
 - i. determine whether the flow is constant or increasing, and document the artesian flows;
 - ii. determine if the turbidity is constant or increasing; and
 - iii. determine if the flow is confined to the well-point/ pumping well or excavation;
 - c. The contractor shall notify the site engineer and implement emergency measures required to arrest the artesian flow, including seepage beneath excavated and backfilled areas. Emergency measures may include:
 - i. the installation of a layer of impermeable material to the extent required to reform a capping layer over the aquifer to prevent the upward movement of groundwater through the confining layer; or

- ii. inserting a vertical pipe in the aquifer interception point (if practicable) and providing for a secure seal against the pipe to enable the stabilisation of the artesian flow in the pipe, and to determine the above ground water level to assess any further measures.
- d. Appropriate erosion and sediment control measures shall be implemented to prevent erosion, scour or sediment laden run-off from occurring due to unexpected artesian flow.
- e. The Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance shall be notified by the contractor as soon as practicable but no later than two working days after the interception; and
- f. Upon remediation and arresting of flow from the aquifer interception, the design of the proposed excavations shall be reconsidered and, if required, revised.

Advice note: This resource consent does not authorise the take or discharge of artesian groundwater, including groundwater seepage from insufficient remedial works. In the event that interception of artesian groundwater occurs, additional approvals may be required.

- 39 Any material deposited in, on, under or over the bed in order to maintain a structure shall be inert materials of colour and material type that blends with the surrounding natural environment.
- 40 Erosion and/or sediment controls in accordance with the Canterbury Regional Council "Erosion and Sediment Control Toolbox" or the New Zealand Transport Agency's "Erosion and Sediment Control Guideline for State Highway Infrastructure", shall be installed for all activities including earthworks to prevent erosion to the channel base or channel sides of the watercourse and to prevent sediment from flowing into any watercourse.
- 41 For works in or adjacent to any waterbody containing water:
- a. Discharges of sediment, other contaminants or organic material into a waterbody shall not occur for more than 10 hours in any 24 hour period, nor for more than 40 hours in any calendar month; and
 - b. Except within the first four hours of the discharge the change in visual water clarity downstream of the discharge shall not exceed 20 percent after reasonable mixing.
- 42 All disturbed areas shall be stabilised and/or planted with suitable vegetation within 14 days following completion of the works, and the vegetation maintained until it is established. Any slopes adjacent to a waterbody steeper than 2 vertical to 1 horizontal shall be provided with durable protection from erosion.

- 43 For "minor works", a sign shall be erected on the site for the duration of the works explaining the nature of the work, time frames expected for completion of the works, advice to local fisheries that there may be a temporary increase in suspended sediment, and contact name and telephone number if the period of the works is to exceed one month.
- 44
- a. All structures installed in accordance with this consent shall be maintained for the duration of the consent, or shall be removed from the waterbody prior to the expiry of the consent.
 - b. Marker posts shall be erected and maintained for the lifetime of any pipes, ducts, cables or wires installed in accordance with this consent.

Accidental discovery

- 45 In the event of any discovery of archaeological material:
- a. The consent holder shall immediately:
 - i. cease earthmoving operations in the affected area and mark off the affected area; and
 - ii. advise the Canterbury Regional Council of the disturbance; and
 - iii. advise the Heritage New Zealand Pouhere Taonga of the disturbance
 - iv. if the archaeological material is determined to be Koiwi Tangata (human bones) or taonga (treasured artefacts) by the Heritage New Zealand Pouhere Taonga, the consent holder shall immediately advise the office of the appropriate runanga (office contact information can be obtained from the Canterbury Regional Council) of the discovery.
 - v. if the archaeological material is determined to be Koiwi Tangata (human bones) by the Heritage New Zealand Pouhere Taonga, the consent holder shall immediately advise the New Zealand Police of the disturbance.
 - vi. work may recommence if the Heritage New Zealand Pouhere Taonga (following consultation with runanga if the site is of Maori origin) provides a statement in writing to the Canterbury Regional Council, Attention: Regional Leader Monitoring and Compliance that appropriate action has been undertaken in relation to the archaeological material discovered. The Canterbury Regional Council shall advise the consent holder on written receipt from the New Zealand Historic Places Trust that work can recommence.

Advice Note: *This may be in addition to any agreements that are in place between the consent holder and the Papatipu Runanga. (Cultural Site Accidental Discovery Protocol)*

Advice Note: Under the Heritage New Zealand Pouhere Taonga Act 2014 an archaeological site is defined as any place associated with pre-1900 human activity, where there is material evidence relating to the history of New Zealand. For sites solely of Maori origin, this evidence may be in the form of accumulations of shell, bone, charcoal, burnt stones, etc. In later sites, artefacts such as bottles or broken glass, ceramics, metals, etc, may be found or evidence of old foundations, wells, drains, tailings, races or other structures. Human remains/koiwi may date to any historic period.

It is unlawful for any person to destroy, damage, or modify the whole or any part of an archaeological site without the prior authority of the Heritage New Zealand Pouhere Taonga. This is the case regardless of the legal status of the land on which the site is located, whether the activity is permitted under the District or Regional Plan or whether a resource or building consent has been granted. The Heritage New Zealand Pouhere Taonga Act 2014 provides for substantial penalties for unauthorised damage or destruction

- 46 In the event that any unexpected contaminated soil or material is uncovered by the works, an accidental discovery protocol shall be implemented, including but not limited to the following steps:
- a. Earthworks within ten metres of unexpected contaminants shall cease immediately;
 - b. All practicable steps shall be taken to prevent the contaminated material becoming entrained in stormwater. Immediate steps shall include, where practicable:
 - i. diverting any stormwater runoff from surrounding areas or surface water flows away from the contaminated material; and
 - ii. minimising the exposure of the contaminated material, including covering the contaminants with an impervious cover;
 - iii. notification of the Canterbury Regional Council, Attention: Contaminated Sites Manager, within 24 hours of the discovery;
 - iv. earthworks within ten metres of unexpected contaminants shall not recommence until a suitably qualified and experienced contaminated land practitioner (SQEP) confirms to Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance that continuing works does not represent a significant risk to the environment;
 - c. All records and documentation associated with the discovery shall be kept and copies shall be provided to the Canterbury Regional Council upon request.

Monitoring

- 47 For works in or adjacent to any wet waterbody:

- a. The consent holder shall monitor visual clarity at least twice per day when works are being undertaken, at least four hours after the works first commence, at times when representative works are underway and as far as practicable the same monitoring method should be used within and between projects and time periods for consistency of reporting.
 - b. Visual clarity measurements shall be taken:
 - i. at least 10 metres upstream of the activity, in a location that is representative of the waterbody where no works are being undertaken; and
 - ii. at the downstream end of the reasonable Mixing Zone for the waterbody, calculated in accordance with Schedule 5 of the Canterbury Land and Water Regional Plan.
 - c. Clarity will be measured using a black disk or clarity tube, in accordance with the National Environmental Monitoring Standards for Sampling, Measuring, Processing and Archiving of Discrete River Water Quality Data.
 - d. The results of all water clarity measurements shall be recorded.
- 48 If the results of the visual clarity monitoring show that more than a 20 percent change in visual clarity or water quality is occurring, the works shall cease and additional measures shall be installed as soon as practicable to effectively manage the sediment discharge. The works shall not recommence until additional mitigation measures are in place.

Reporting

- 49 A summary of the works carried out between 1 July and 30 June each year as part of this consent shall be submitted to the Canterbury Regional Council, attention: Regional Leader Monitoring and Compliance, to Te Ngai Tuahuriri Runanga (MKT.Admin@ngaitahu.iwi.nz), and to North Canterbury Fish and Game Council, by 30 August of that same year. The works summary shall include, but not be limited to:
- a. Details of the location, date of commencement and duration of each project;
 - b. Details of any exceedances of the visual clarity/turbidity requirements of this consent, and measures implemented to remedy these;
 - c. Details of any complaints made to Waimakariri District Council or the contractor regarding the works undertaken, and whether any remedial actions were undertaken in response to these complaints; and
 - d. The results of any investigations undertaken in accordance with condition (13).
- 50 At least once every five years, the consent holder shall generate a new spawning map for salmon, trout and inanga based on any new spawning surveys undertaken by the consent holder and all new spawning survey data published by the North Canterbury Fish and Game Council in the previous five years.

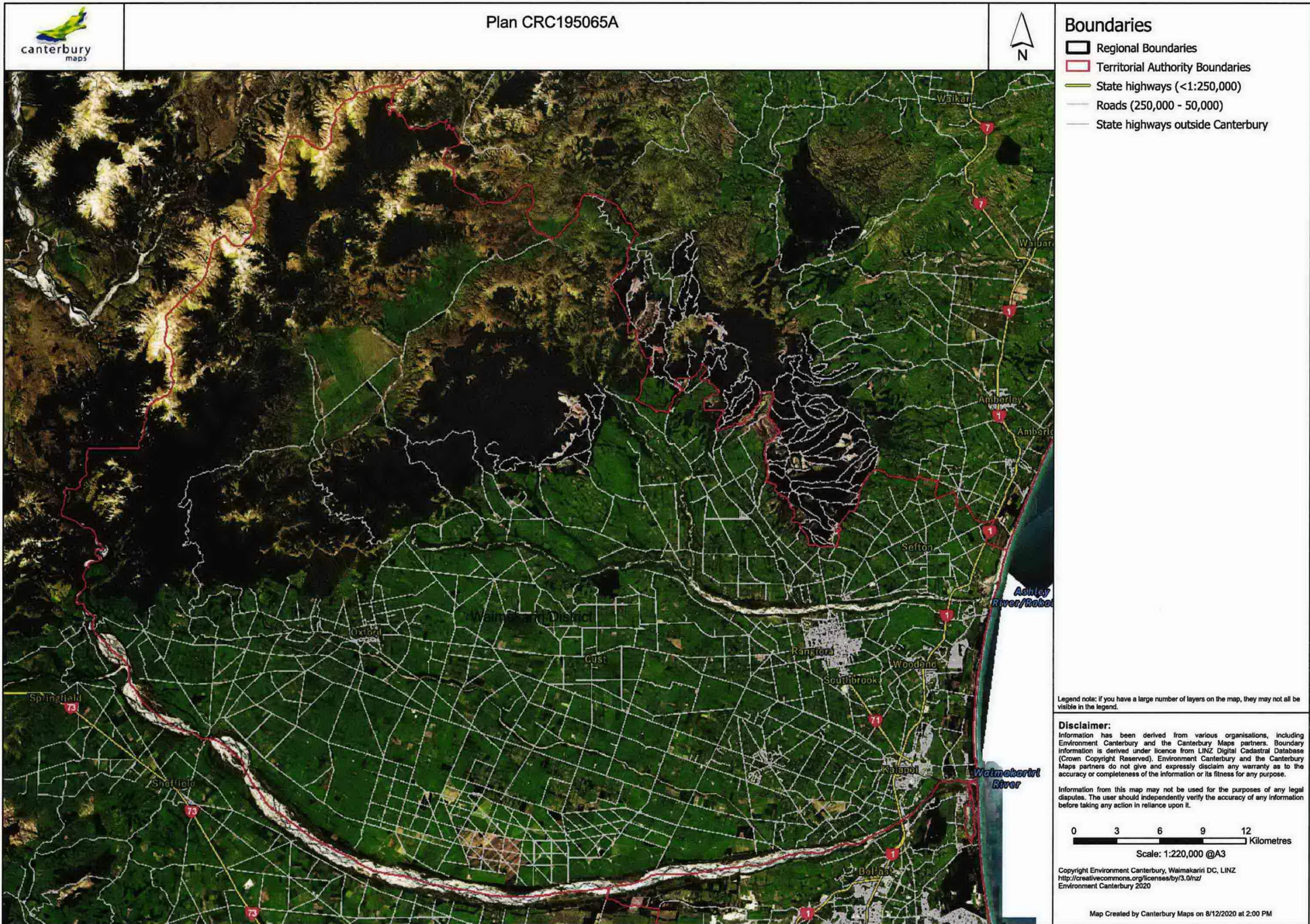
Advice note: The National Environmental Standards for Freshwater has reporting requirements that apply to the placement, alteration, extension or re-construction of some structures that may be covered by this consent. These structures are: culverts, weirs, dams, fords, flap gates, aprons or ramps. Refer to regulations 62-68 of the National Environmental Standards for Freshwater for more information about these reporting requirements.

Administration

- 51 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.
- 52 The lapsing date for the purposes of section 125 of the Resource Management Act 1991 shall be 31 December 2025.

Issued at Christchurch on 10 December 2020

Canterbury Regional Council



Plan CRC195065A

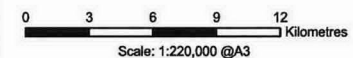


- Boundaries**
- Regional Boundaries
 - Territorial Authority Boundaries
 - State highways (<1:250,000)
 - Roads (250,000 - 50,000)
 - State highways outside Canterbury

Legend note: if you have a large number of layers on the map, they may not all be visible in the legend.

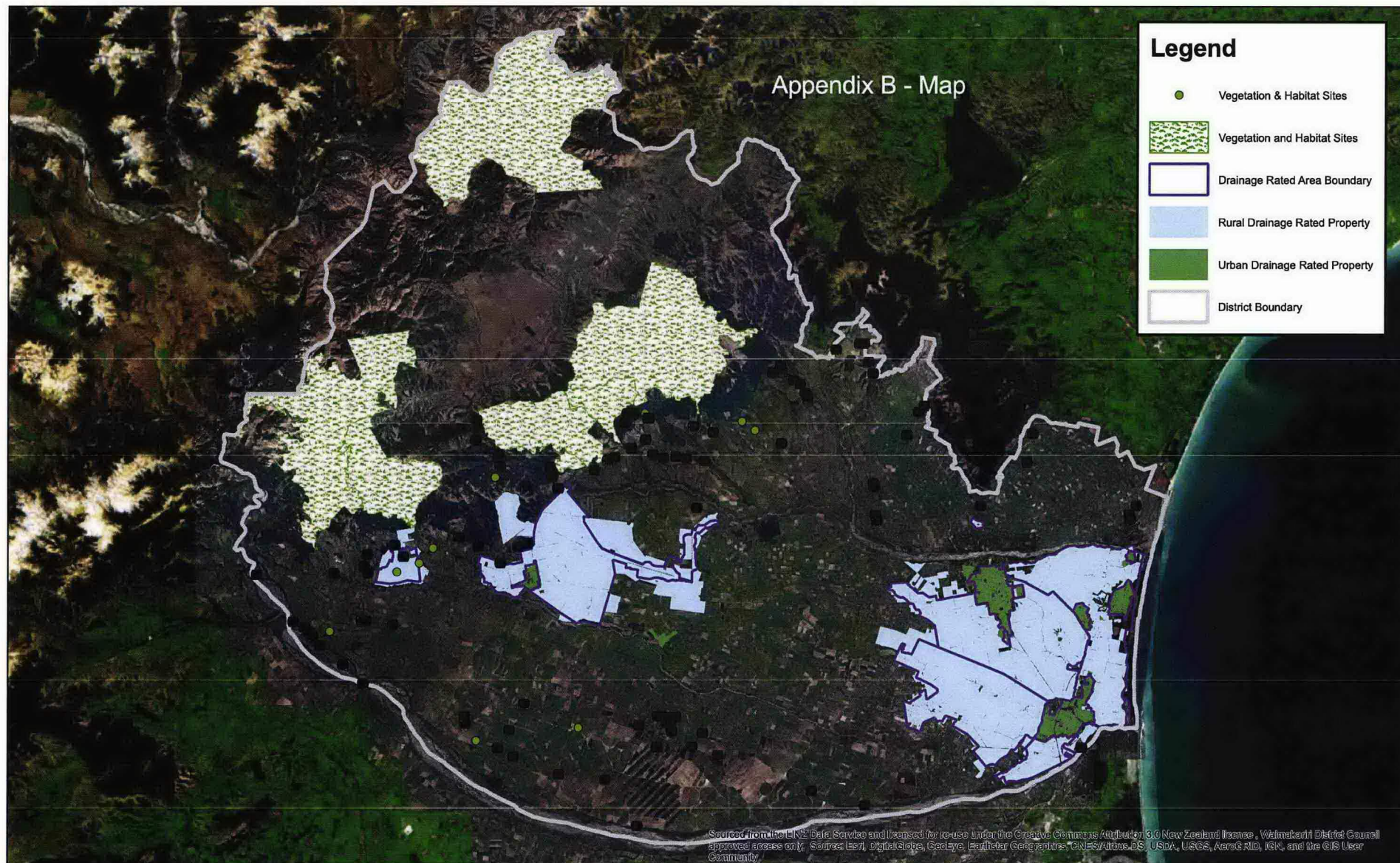
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Information from this map may not be used for the purposes of any legal disputes. The user should independently verify the accuracy of any information before taking any action in reliance upon it.



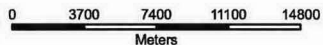
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 Environment Canterbury 2020

Map Created by Canterbury Maps on 8/12/2020 at 2:00 PM



Waimakariri District

020-049



Scale 1:240,000
Original Size - A3

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Boundary information is derived under licence from LINZ Digital Cadastral Database (Crown Copyright Reserved). The Waimakariri District Council does not give and expressly disclaims any warranty as to the accuracy or completeness of the information or its fitness for any purpose. Information on this map may not be used for the purposes of any legal disputes. The user should independently verify the accuracy of any information before taking any action in reliance upon it. Land and property information is based on/derived from LINZ's data which is licensed by Land Information New Zealand (LINZ) for re-use under the Creative Commons Attribution 3.0 New Zealand licence.



Plan CRC195065C sheet 1

General Consent for Maintenance: Appendix D – Spawning maps

Inanga

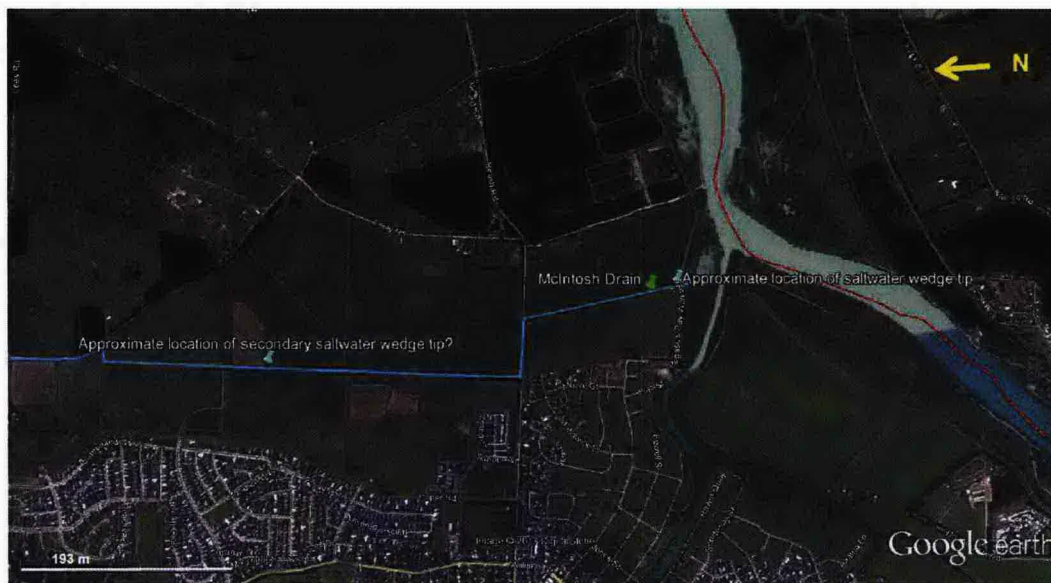


Kairaki –Saltwater Creek

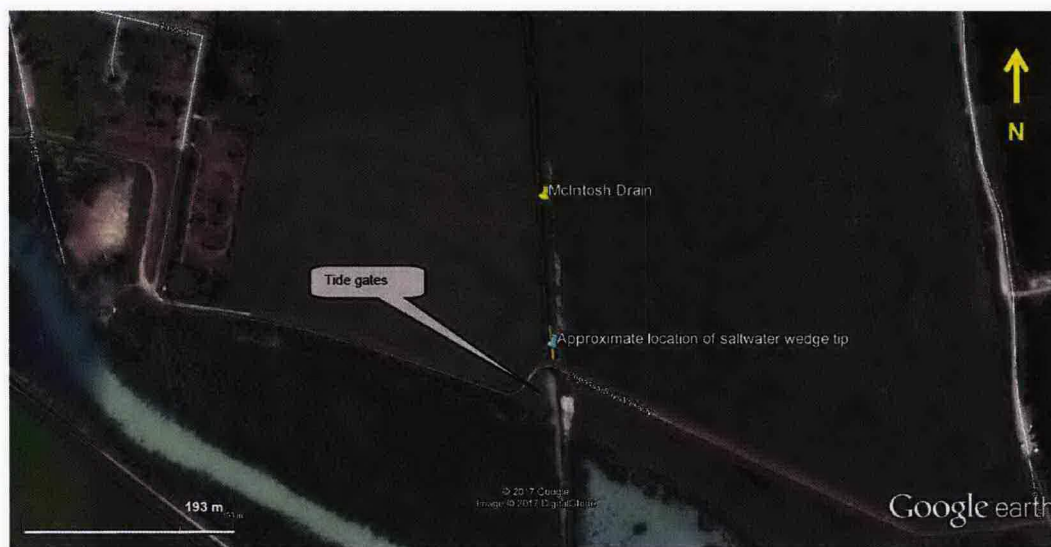


Lower Taranaki Stream

Plan CRC195065C sheet 2



McIntosh Drain overview



McIntosh Drain close up

Plan CRC195065C sheet 3



Figure xiii. Overview of trout redds (egg nests) in the Cam River catchment. Squares represent trout redds as follows: green = 2005; pink = 2012 and yellow = 2017. Yellow pins are elevated to 300 m above ground, while pink are elevated to 125 m to improve distinction between years. Green pins are grounded. Orange lines = WDC open drains and red lines = open drains to be cleaned. The reach bracketed in white was not surveyed in 2017.

Trout – Cam River

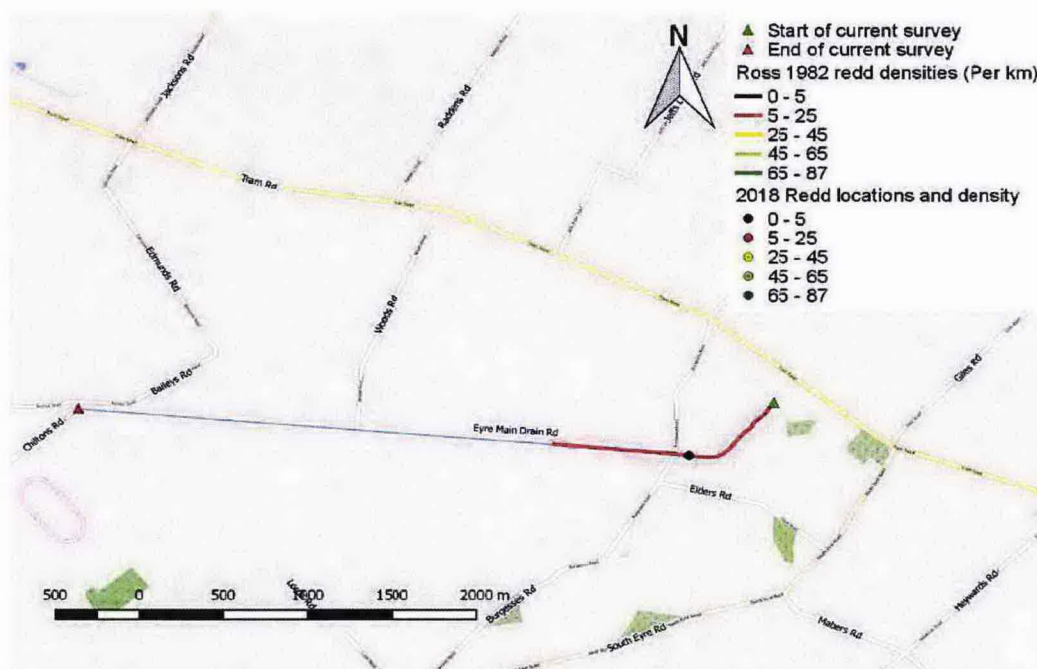


Figure 8. The result of the trout redd survey of Eyre Main Drain Stream, conducted on 31/08/18. Coloured lines indicate historical redd densities (per 1 km) adapted from Ross (1982). Note that the survey by Ross (1982) did not include the entire length that was surveyed in the current study. The remainder of the current studies survey path is marked with a thin blue line.

Trout Eyre main drain

Plan CRC195065C sheet 4

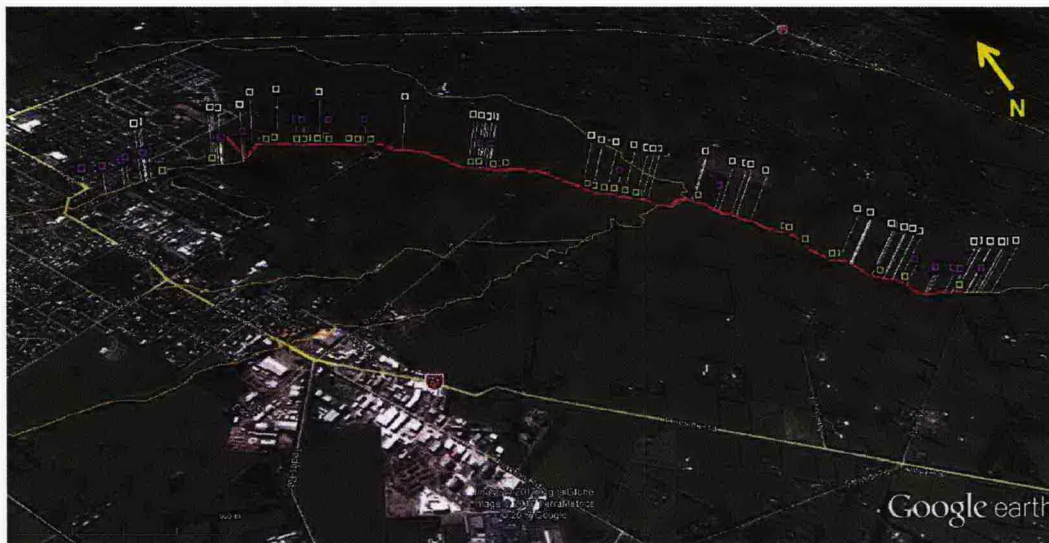


Figure xlv. Trout redds (egg nests) in North Brook that coincide with instream channel maintenance (Cam River catchment). Squares represent trout redds as follows: green = 2005; pink = 2012 and yellow = 2017. Yellow pins are elevated to 300 m above ground, while pink are elevated to 125 m to improve distinction between years. Green pins are grounded. Orange lines = WDC open drains and red lines = open drains to be cleaned. Redds in adjoining tributaries have been suppressed for clarity.

Trout Northbrook



Figure 7. The results of the trout redd survey of Ohoka Stream conducted over the dates of 14/08/18 and 28/08/18. Each point represents a single trout redd, while its colour indicates the 2018 redd density over the reach it is located in. The reaches used for these calculations match the those described in Ross (1982), who's density data is also included, represented by the coloured lines. Location of weir shown in Appendix I, Fig. vi included.

Trout Ohoka Stream

Exercising of Resource Consent CRC195065

It is important that you notify Environment Canterbury when you first start using your consent.

GRANTED TO: Waimakariri District Council
A LAND USE CONSENT (S13): To use land for watercourse maintenance.
LOCATION: various locations, Waimakariri District

Even if the consent is replacing a previous consent for the same activity, you need to complete and return this page.

A consent can only be made active after the activity has commenced and all pre-requisite conditions have been fulfilled e.g. installation of water meter and/or fish screen. If you require further advice, please contact our Customer Services section on 0800 324 636 or by email at ecinfo@ecan.govt.nz.

Providing this information will:

- Validate your consent through to its expiry date
- Minimise compliance monitoring charges
- Help provide an accurate picture of the state of the environment.

If consent CRC195065 is not used before 31 December 2025 this consent will lapse and no longer be valid.

Declaration:

I have started using this resource consent.

Action taken (e.g. pasture irrigated, discharge from septic tank/boiler/spray booth etc):

Date I started using this resource consent (Note: this date cannot be in the future): _____

Signed: _____ **Date:** _____

Full name of person signing (please print): _____

Please return to:

**Business Support
Environment Canterbury
PO Box 345
Christchurch 8140**

**Fax: (03) 365 3194
Email: ecinfo@ecan.govt.nz**

**File: CRC195065
Customer No: EC116063**

10 December 2020



Waimakariri District Council
Attn To: Simon Collin
Private Bag 1005
Rangiora 7440

Customer Services
P. 03 353 9007 or 0800 324 636
200 Tuam Street
PO Box 345
Christchurch 8140
E. ecinfo@ecan.govt.nz
www.ecan.govt.nz

Dear Sir/Madam

Notice of Resource Consent Decision

Record Number(s): CRC195066
Applicant Name: Waimakariri District Council
Activity Description: To dam & divert water.
Decision: Granted

Decision

The decision of Environment Canterbury is to grant your application on the terms and conditions specified in the attached resource consent document. The reasons for the decision are:

1. The activity will achieve the purpose of the Act.
2. The activity is consistent with the policies of the regional plan or national policy statement.

Commencement of consent

Your resource consent commences from the date of this letter advising you of the decision.

If you object to or appeal this decision, the commencement date will then be the date on which the decision on the appeal is determined.

Lapsing of consent

This resource consent will lapse if the activity is not established or used before the lapse date specified on your consent document. Application may be made under Section 125 of the Resource Management Act 1991 to extend this period.

Your rights of objection and appeal

▪ Objection to Decision

If you do not agree with the decision of the consent authority, you may object to the whole or any part in accordance with Section 357A(1)(g) of the Resource Management Act 1991 (RMA). Notice of any objection must be in writing and lodged with Environment Canterbury **within 15 working days** of receipt of this decision in accordance with Section 357C(1) of the RMA.

- **Right to Appeal**

You may appeal the decision of the consent authority to the Environment Court in accordance with section 120 of the RMA. The notice of appeal must be lodged with the Court within 15 working days of receipt of this decision, at PO Box 2069, Christchurch. A copy of the appeal should also be forwarded to Environment Canterbury within the same timeframe.

If you are in any doubt about the correct procedures, you should seek legal advice.

- **Objection to Costs**

Section 357B of the RMA allows you to object to costs. Your objection must be received **within 15 working days** of the date on which you receive your invoice. Your objection must be in writing and should clearly explain the reasons for your objection as detailed in section 357C of the RMA.

Monitoring of conditions

It is important that all conditions of consent are complied with, and that the consent holder continues to comply with all conditions, to ensure that the activity remains lawfully established.

You can find online Information regarding the monitoring of your consent at www.ecan.govt.nz/monitoringconsent.pdf.

Charges, set in accordance with section 36 of the Resource Management Act 1991, shall be paid to the Regional Council for the carrying out of its functions in relation to the administration, monitoring and supervision of resource consents and for the carrying out of its functions under section 35 of the Act.

Further information about your consent

For some activities a report is prepared, with officer recommendations, to provide information to the decision makers. If you require a copy of the report please contact our Customer Services section. You can find online information about your consent document at www.ecan.govt.nz/yourconsent.pdf.

Queries

For all queries please contact Customer Services Section quoting your CRC number noted above.

Thank you for helping us make Canterbury a great place to live.

Yours sincerely



Consents Planning Section

RESOURCE CONSENT CRC195066*Pursuant to Section 104 of the Resource Management Act 1991***The Canterbury Regional Council (known as Environment Canterbury)**

GRANTS TO:	Waimakariri District Council
A WATER PERMIT (S14):	To dam & divert water.
COMMENCEMENT DATE:	10 Dec 2020
DATE CONSENT NUMBER ISSUED:	10 Dec 2020
EXPIRY DATE:	10 Dec 2035
LOCATION:	various locations, Waimakariri District

SUBJECT TO THE FOLLOWING CONDITIONS:

0 Definitions:

For the purpose of this resource consent, words have the same meaning as defined by the Resource Management Act, or Canterbury Land and Water Regional Plan, unless stated otherwise.

Scope

1 The damming and diversion shall be only:

- a. Temporary damming and/or diversion of part or full flow of a surface waterbody, within the Waimakariri District as shown in Plan CRC195066A, to facilitate works authorised by resource consent CRC195065 and facilitate works and alterations to the consent holder's network utility system and other activities within waterbodies described in the Drainage Maintenance Management Plan required by CRC195065;
- b. Permanent diversion of flows by structures installed in accordance with resource consent CRC195065; and
- c. Permanent diversion of watercourses for the purpose of habitat improvement to the extent of changing the original bed configuration up to 100 percent of the original flowing channel width, measured at mean annual low flow, to create meanders, improve habitat diversity, create riffles within a meander, reshape banks or two stage channel creation to form a new bed profile or to create sediment trapping areas on the margin, undertaken in accordance with resource consent CRC195065.

Advice Note: Please be aware that this consent may not be the only authorisation required to undertake the activities authorised by this consent. The consent holder is required to obtain any permissions and easements needed from landowners and others in order to secure access to and to undertake any works authorised by this consent on land that is not owned by the consent holder.

Advice note: This consent does not authorise new culverts, temporary damming and diversions undertaken to facilitate the placement or reconstruction of bridges and culverts in the bed of a river to replace existing structures (for example replace existing fords, bridges or culverts), and the maintenance or replacement of existing bridges and culverts undertaken in accordance with CRC030621. Damming and diversion for this purpose is covered by CRC030622.

Advice note: This consent does not cover take/discharge of groundwater (dewatering), if dewatering is required and the relevant rules of the operative and proposed regional plan cannot be met, an additional resource consent will be required.

2 The consent holder shall notify:

- a. The Canterbury Regional Council, Attention: Regional Leader Monitoring and Compliance;
- b. The Canterbury Regional Council, Attention: Regional Engineer, regarding any discharge of diverted water in waterbodies managed by the Canterbury Regional Council;
- c. Te Ngai Tuahuriri Runanga (MKT.Admin@ngaitahu.iwi.nz); and
- d. North Canterbury Fish and Game;

not less than two months prior to any damming and diversion of water undertaken in accordance with this consent.

3 Prior to the commencement of any damming and/or diversion works an assessment and reporting shall be undertaken to determine the risk of encountering contaminated soil or groundwater conditions, in the diversion area. The assessment shall follow the procedure set out in the "Drainage Maintenance and Management Plan" required by condition (4) of CRC195065, and the Ministry for the Environment's Contaminated Land Management Guidelines numbers 1 and 5, and:

- a. Utilise the Listed Land Use Register (LLUR) and any other databases maintained by the Canterbury Regional Council, and property files the Waimakariri District Council holds for the site to support the assessment, and include checking with Canterbury Regional Council's Contaminated Sites Management team to determine if the site/activity has been previously investigated if potential contamination of the site is indicated in this desktop review by any current or historic activity at the site

- b. Determine whether the information available indicates that it is more likely than not that an activity listed on the Hazardous Industries and Activities List or Schedule 3 of the Land and Water Regional Plan has been undertaken on, or may have caused contamination of the proposed works area, including any activity located within a 50 metres radius of any proposed minor works or maintenance activity.
- c. If any activities have been identified in accordance with condition (3)(b), and a previous investigation of the site has been undertaken that shows that contaminant concentrations are at or below background concentrations, or states that it is highly unlikely that the activity poses an environmental risk, the proposed works may commence.
- d. If no previous information is available to identify the risk to the environment from the activity identified in accordance with condition (3)(b), or if the investigations indicate that contamination is present in excess of local background concentrations a suitably qualified and experienced person (SQEP) shall undertake an assessment to:
 - i. assess whether there is a risk to water quality and/or ecology in the waterbody, due to contamination, if the works are undertaken; and
 - ii. either provide recommendations for avoiding or mitigating the risk identified to water quality and/or ecology; or state if avoiding or mitigating the risk is not possible.

Advice Note: A SQEP is defined as a person with a relevant tertiary qualification and at least 10 years' experience in contaminated land matters, including the identification and assessment of contaminated soils and groundwater.

- 4 All investigations undertaken in accordance with condition (3) shall be provided to the Canterbury Regional Council, Attention: Regional Leader Monitoring and Compliance by 30 August each year.
- 5 Damming and diversion shall be undertaken in accordance with the "Drainage Maintenance and Management Plan" required by condition (4) of CRC195065.
- 6 Temporary damming and/or diversion shall be undertaken to the minimum practicable extent, and for the minimum amount of time, required to undertake the works.
- 7 Any temporary damming and/or diversion shall not:
 - a. Cause erosion of the banks and/or bed of any waterbody or stormwater system;
 - b. Flood land or property owned or occupied by another person without the written permission of the landowner; or
 - c. Occur for longer than four weeks (28 calendar days).

- 8 Vehicles and machinery shall, as far as practicable, not enter waterbody channels containing flowing water.
- 9 All practicable measures shall be undertaken to minimise adverse effects on property, amenity values, wildlife, vegetation, and ecological values.
- 10 The damming and/or diversion shall not prevent the passage of fish, or cause the stranding of fish in pools or channels. Whenever more than 50 percent of the width of the waterbody is dewatered over more than 25 metres fish salvage of the dewatered area shall be conducted by a suitably qualified ecologist immediately following the diversion occurring.
- 11 a. This consent does not authorise:
- i. damming and diversion during the trout/salmon spawning period of 1 May to 31 October for all waterbodies at the spawning sites identified on Plan CRC195066B which forms part of this consent and any updated spawning maps required by condition (12).
 - ii. damming and diversion in any identified inanga spawning sites shown on Plan CRC195066B which forms part of this consent and any updated spawning maps required by condition (12) during the period of 1 February to 31 May;
 - iii. Works in the flowing channel in any identified inanga spawning site between 1 January and 31 January, with the exception of weed removal;
- unless a work site specific spawning survey by a qualified ecologist indicates that there are no spawning sites present that would be adversely affected by the works.
- a. Any report on a site specific survey undertaken in accordance with condition (11)(a) shall be supplied to the North Canterbury Fish and Game Council and the Canterbury Regional Council, attention: RMA Compliance and Enforcement Manager, not less than 10 working days prior to the commencement of the works.
- 12 At least once every five years, the consent holder shall generate a new spawning map for salmon, trout and inanga based on any new spawning surveys undertaken by the consent holder and all new spawning survey data published by the North Canterbury Fish and Game Council in the previous five years.

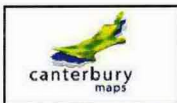
Administration

- 13 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.

- 14 The lapsing date for the purposes of section 125 of the Resource Management Act 1991 shall be 31 December 2025.

Issued at Christchurch on 10 December 2020

Canterbury Regional Council



Plan CRC195066A



Boundaries

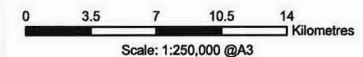
- Regional Boundaries
- Territorial Authority Boundaries
- State highways (<1:250,000)
- Roads (250,000 - 50,000)
- State highways outside Canterbury



Legend note: If you have a large number of layers on the map, they may not all be visible in the legend.

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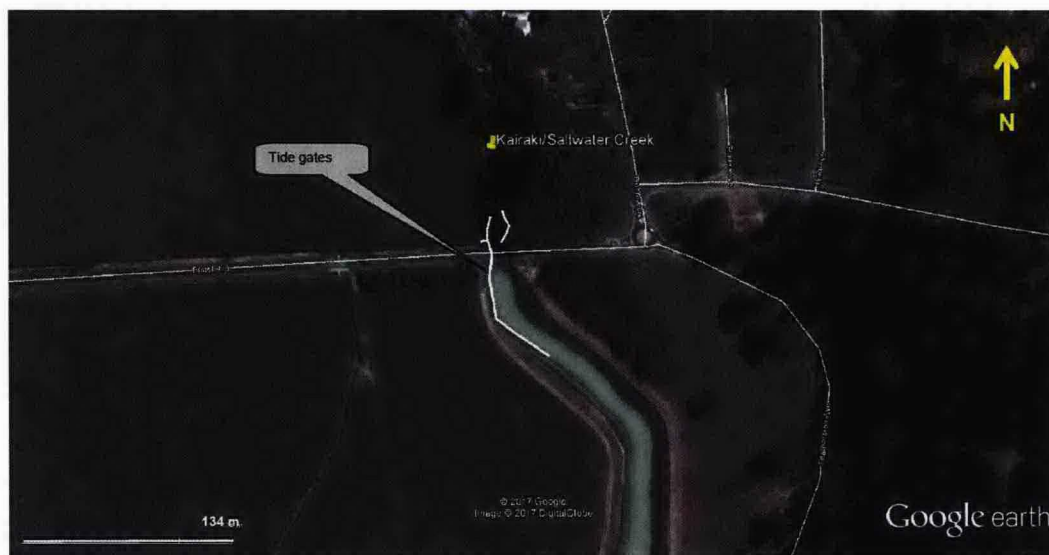
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 Environment Canterbury 2020

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Plan CRC195066B sheet 1

General Consent for Maintenance: Appendix D – Spawning maps

Inanga

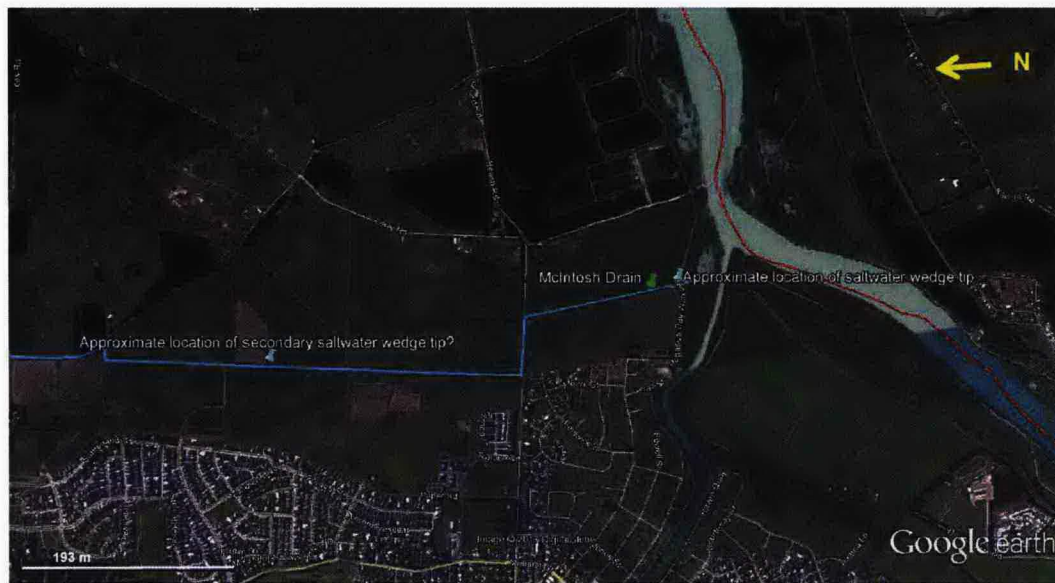


Kairaki –Saltwater Creek

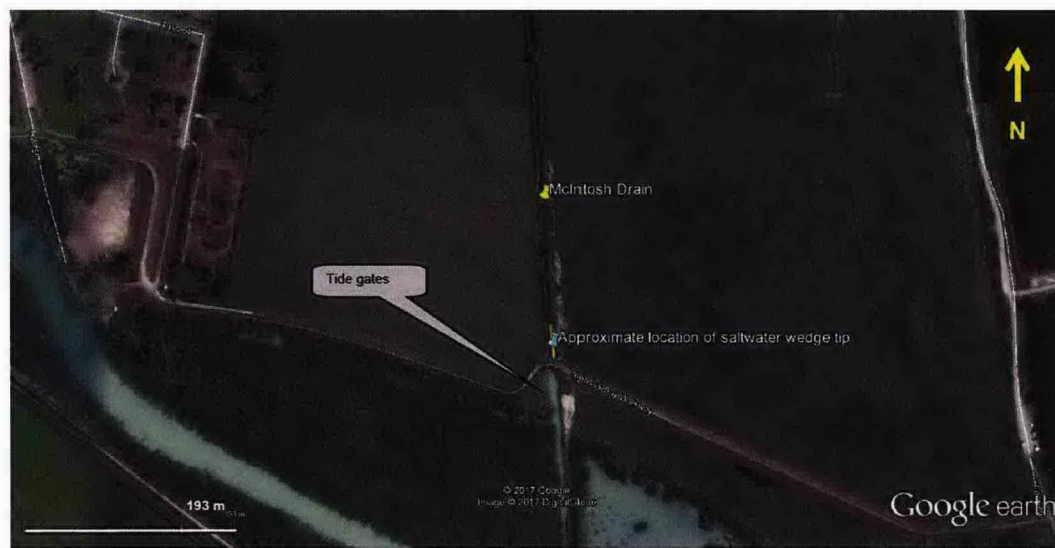


Lower Taranaki Stream

Plan CRC195066B sheet 2



McIntosh Drain overview



McIntosh Drain close up

Plan CRC195066B sheet 3



Figure xiii. Overview of trout redds (egg nests) in the Cam River catchment. Squares represent trout redds as follows: green = 2005; pink = 2012 and yellow = 2017. Yellow pins are elevated to 300 m above ground, while pink pins are elevated to 125 m to improve distinction between years. Green pins are grounded. Orange lines = WDC open drains and red lines = open drains to be cleaned. The reach bracketed in white was not surveyed in 2017.

Trout – Cam River

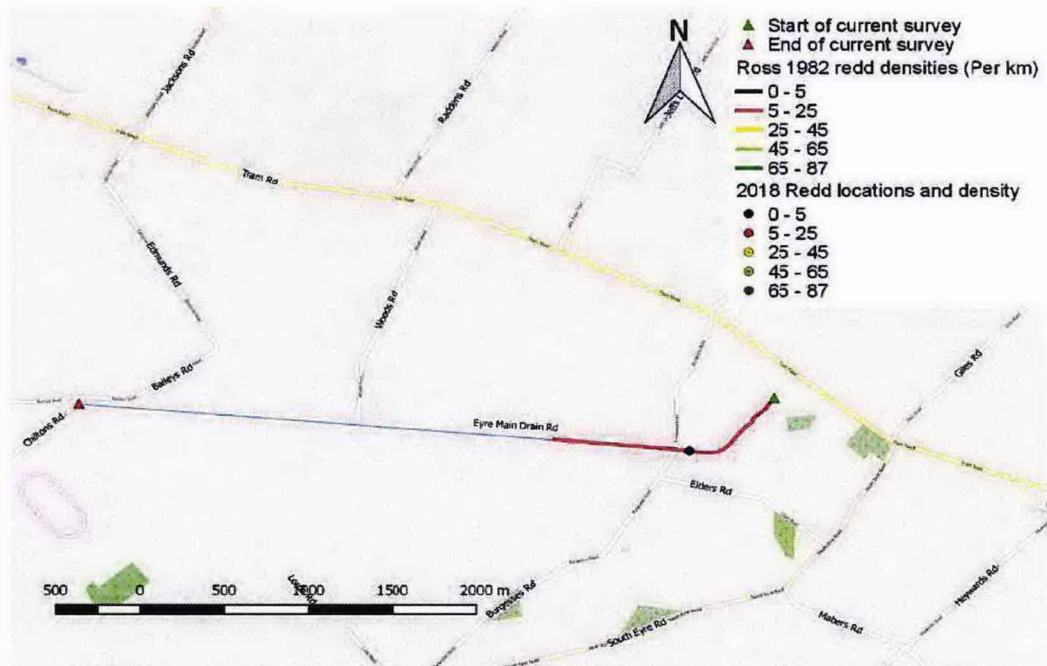


Figure 8. The result of the trout redd survey of Eyre Main Drain Stream, conducted on 31/08/18. Coloured lines indicate historical redd densities (per 1 km) adapted from Ross (1982). Note that the survey by Ross (1982) did not include the entire length that was surveyed in the current study. The remainder of the current studies survey path is marked with a thin blue line.

Trout Eyre main drain

Plan CRC195066B sheet 4

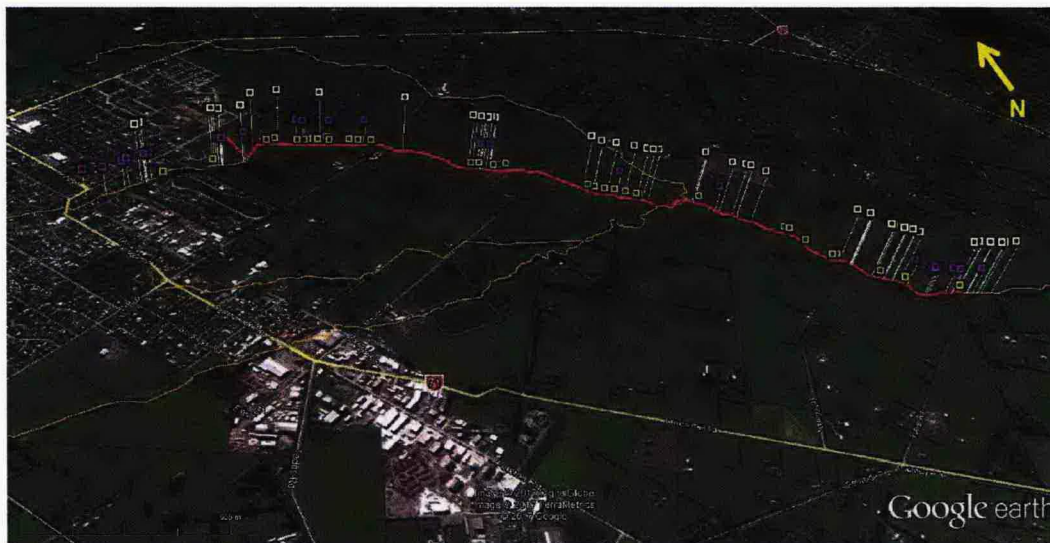


Figure xiv. Trout redds (egg nests) in North Brook that coincide with instream channel maintenance (Cam River catchment). Squares represent trout redds as follows: green = 2005; pink = 2012 and yellow = 2017. Yellow pins are elevated to 300 m above ground, while pink are elevated to 125 m to improve distinction between years. Green pins are grounded. Orange lines = WDC open drains and red lines = open drains to be cleaned. Redds in adjoining tributaries have been suppressed for clarity.

Trout Northbrook



Figure 7. The results of the trout redd survey of Ohoka Stream conducted over the dates of 14/08/18 and 28/08/18. Each point represents a single trout redd, while its colour indicates the 2018 redd density over the reach it is located in. The reaches used for these calculations match the those described in Ross (1982), who's density data is also included, represented by the coloured lines. Location of weir shown in Appendix I, Fig. vi included.

Trout Ohoka Stream

Exercising of Resource Consent CRC195066

It is important that you notify Environment Canterbury when you first start using your consent.

GRANTED TO:	Waimakariri District Council
A WATER PERMIT (S14):	To dam & divert water.
LOCATION:	various locations, Waimakariri District

Even if the consent is replacing a previous consent for the same activity, you need to complete and return this page.

A consent can only be made active after the activity has commenced and all pre-requisite conditions have been fulfilled e.g. installation of water meter and/or fish screen. If you require further advice, please contact our Customer Services section on 0800 324 636 or by email at ecinfo@ecan.govt.nz.

Providing this information will:

- Validate your consent through to its expiry date
- Minimise compliance monitoring charges
- Help provide an accurate picture of the state of the environment.

If consent CRC195066 is not used before 31 December 2025 this consent will lapse and no longer be valid.

Declaration:

I have started using this resource consent.

Action taken (e.g. pasture irrigated, discharge from septic tank/boiler/spray booth etc):

Date I started using this resource consent (Note: this date cannot be in the future): _____

Signed: _____ **Date:** _____

Full name of person signing (please print): _____

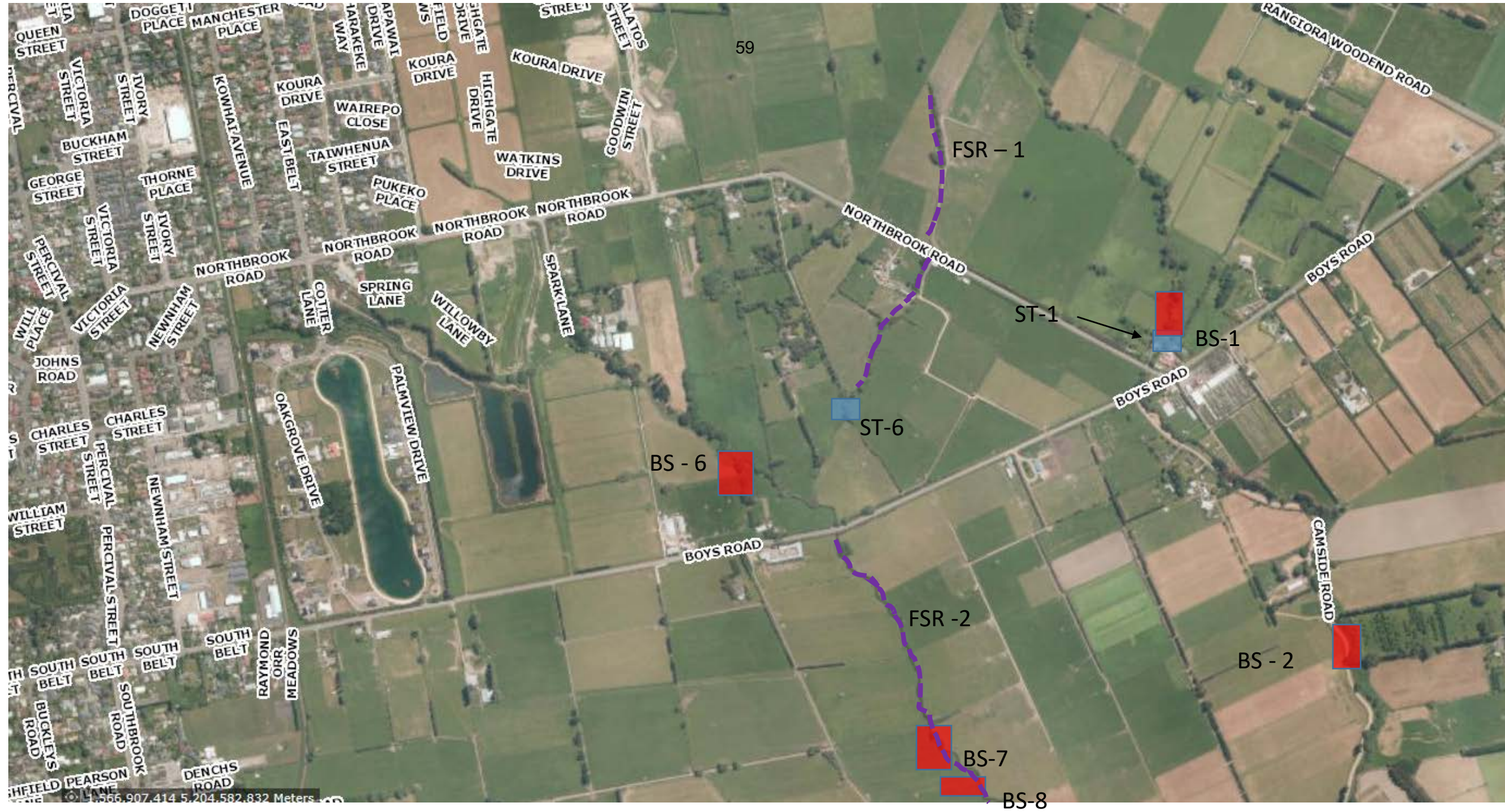
Please return to:

**Business Support
Environment Canterbury
PO Box 345
Christchurch 8140**

**Fax: (03) 365 3194
Email: ecinfo@ecan.govt.nz**

**File: CRC195066
Customer No: EC116063**

Cam River Enhancement Fund overview plans



59

FSR - 1

ST-1

BS-1

ST-6

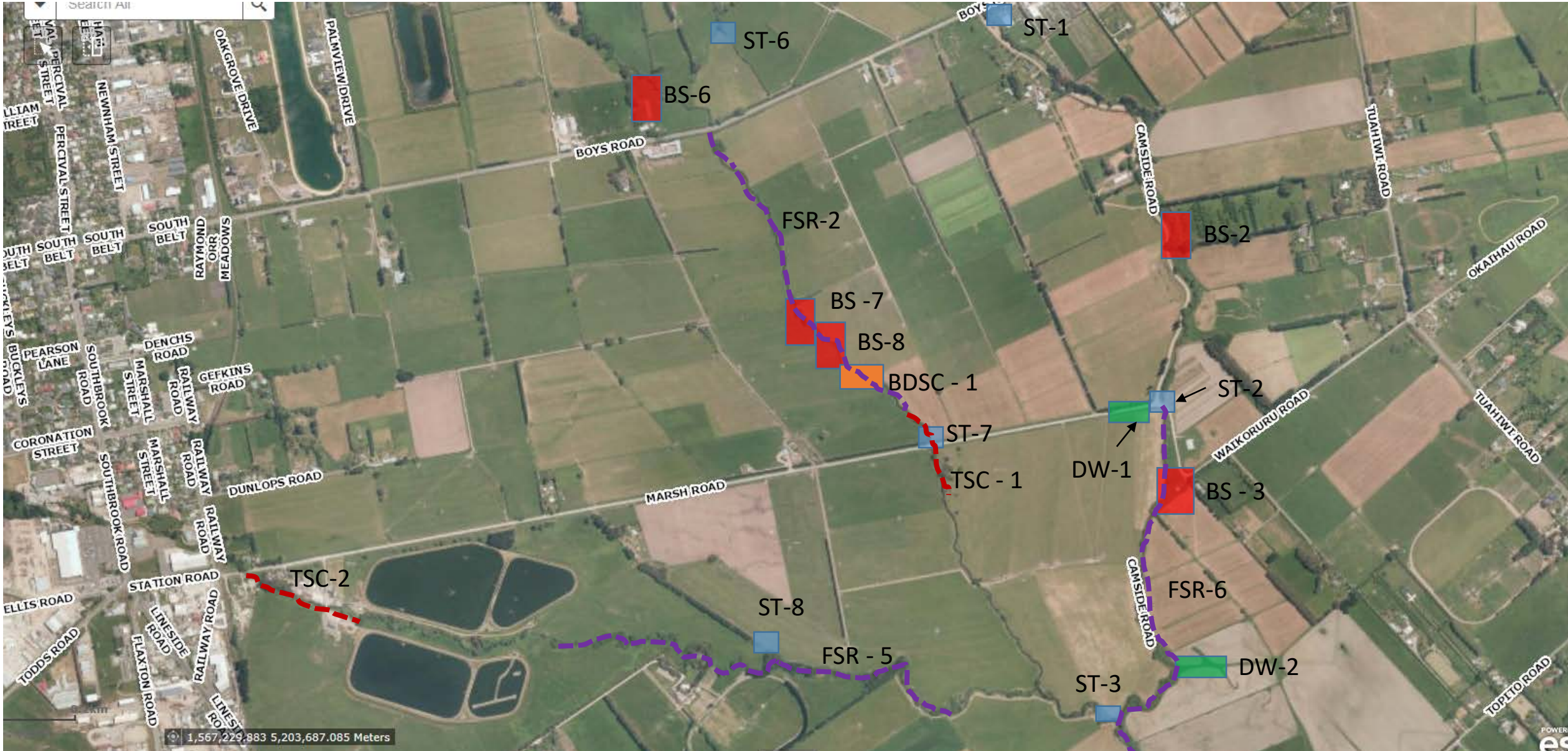
BS - 6

FSR - 2

BS-7

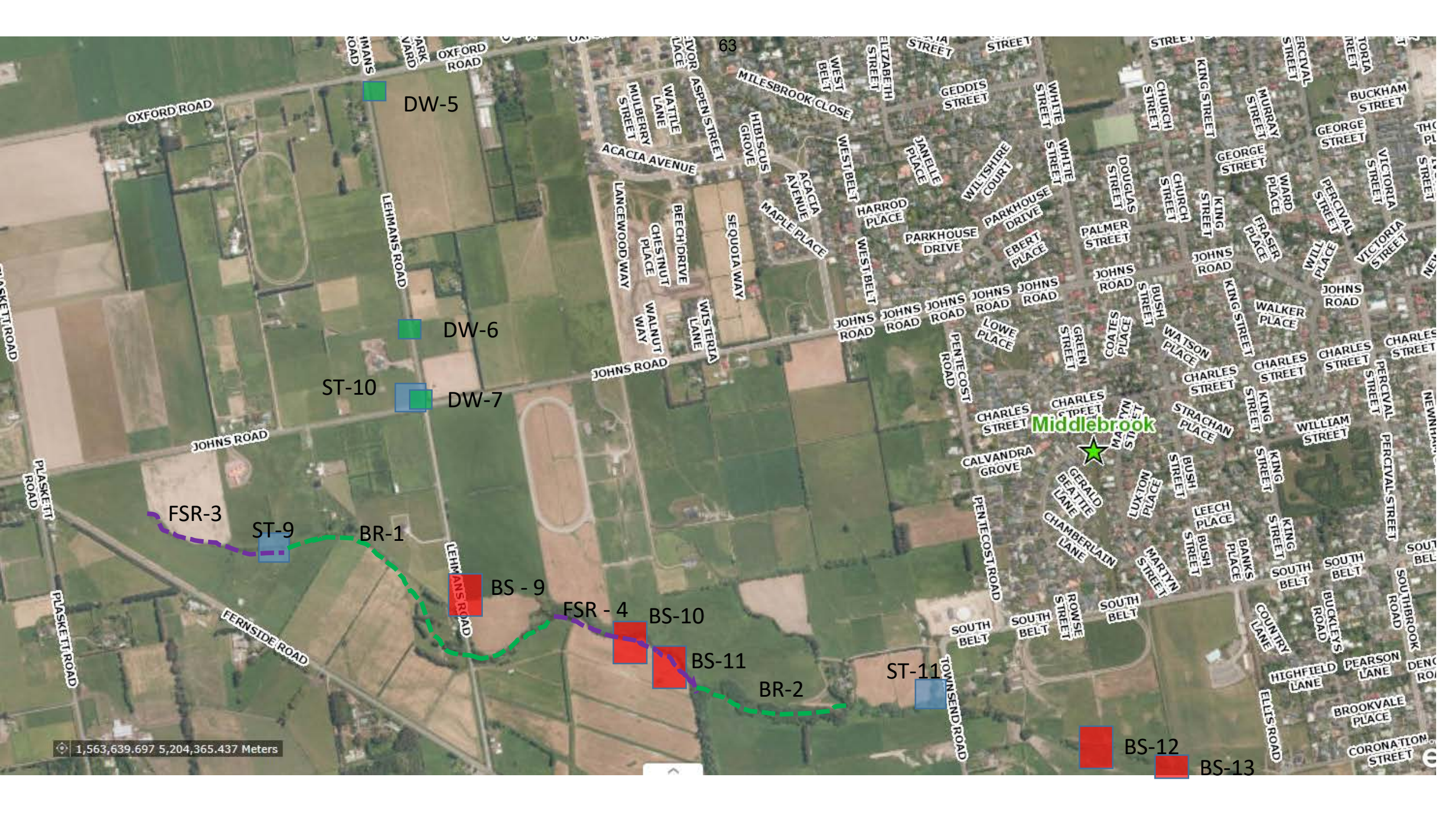
BS-8

BS - 2









DW-5

DW-6

ST-10

DW-7

Middlebrook

FSR-3

ST-9

BR-1

BS-9

FSR-4

BS-10

BS-11

BR-2

ST-11

BS-12

BS-13

1,563,639.697 5,204,365.437 Meters





BS-15



BS-16