

APPENDIX 6: RECOMMENDED CONDITIONS

(Note: Track changes version below shows the changes proposed by ODL to the recommended conditions set out in the Parts A and B of the section 42A Report).

Recommended Conditions for Consent Application CRC201188

Proposed Activity: Land Use Consent (s9) to use land for erection and placement of structures in the Coastal Hazard Zones

Proposed Consent Duration: 10 years

Proposed Conditions:

	General
1	The activity shall be limited to the erection and placement of structures within Coastal Hazard Zones 1 and 2.
2	The erection and placement of structures authorised under condition (1) above shall be limited to: a. the structures required for the operation of the outfall pipeline and surge-tank man-hole b. any temporary structures required during the construction period.
3	The structures referred to in Condition (2) shall be located within the area labelled as "location of structures" on Plan CRC201188, which forms part of this resource consent.
	Prior to works
4	The consent holder shall notify the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance, at least seven working days prior to the commencement of the authorised works under Condition (1) and within seven working days after the completion of the works.

Commented [JG1]: As per evidence from Mr Duder, there will be no surge tank.

5	<p>Prior to the commencement of the works described in Condition (1) of this resource consent, all persons undertaking works shall be made aware of, and have access to the contents of:</p> <ul style="list-style-type: none">a. This resource consent document; andb. The Construction Management Plan required under Condition (6) of this resource consent.
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	Construction Management Plan
6	<p>No later than two months prior to the commencement of the construction works authorised by this consent, the consent holder shall prepare and submit to the Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance, a Construction Management Plan.</p> <p>The objectives of the Construction Management Plan shall be:</p> <ol style="list-style-type: none"> to ensure that the construction activities achieve compliance with the conditions of this resource consent; to avoid, where practicable, adverse environmental effects and, where not practicable, to ensure appropriate mitigation or appropriate remediation is undertaken; to minimise the release of sediment, either to water or to air, during construction activities; to provide methods to ensure that persons under its control respect and apply the Construction Management Plan; and to integrate good environmental practice into construction activities.
7	<p>In achieving the objectives described in condition (6), the Construction Management Plan shall be prepared in consultation with the Canterbury Regional Council and shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> a description of the location and extent of the works; the best practicable measures that will be adopted during construction to avoid, remedy or mitigate construction effects within the coastal hazard zones; the contact details of the lead contractor; the timing and duration of each phase, including the working hours within which works will be undertaken; the construction method(s) to be adopted including but not limited to dust and sediment control; public access and pipeline signage during the construction period; measures to avoid adverse effects on penguins during construction; a description of the use of any hazardous chemicals, including fuels and oils, stored or used and their storage requirements; and emergency procedures.
8	<p>Construction Works shall not commence until:</p> <ol style="list-style-type: none"> the Canterbury Regional Council has certified that the Construction Management Plan meets the objectives described in condition (6) and includes the matters described in condition (7); or if the Canterbury Regional Council confirms receipt but then fails to provide any further response to the consent holder within a period of 1 month then the Construction Management Plan shall be deemed to be certified.

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Commented [JG2]: This commitment was included in our draft conditions

9	Any subsequent amendment to the Construction Management Plan shall require certification from the Canterbury Regional Council in accordance with the procedure outlined in conditions (6) to (8) (as if the references to the Construction Management Plan were references to the amendment).
	Lizard Management Plan
10	<p>Prior to the commencement of any removal/disturbance works the Consent Holder shall submit to Canterbury Regional Council Attention Regional Leader - Monitoring and Compliance, a Lizard Management Plan (LMP) prepared by a suitably qualified and experienced ecologist/herpetologist. The LMP Plan shall be <u>prepared in consultation with Te Runanga o Waihao and shall be</u> designed to achieve the following objective:</p> <p>a. The habitat of each species of indigenous lizard present on the site at which habitat clearance is to occur shall be maintained or enhanced, either on the same site or at an appropriate alternative site <u>to help ensure that any long-term impact is a positive impact.</u></p> <p>Advice note: The LMP should align with any guidelines produced by the Department of Conservation's (DOC's) Lizard Technical Advisory Group (TAG).</p>
11	<p>The LMP shall address the following (where relevant):</p> <p>a. Credentials and contact details of the ecologist/herpetologist who will implement the plan.</p> <p>b. Timing of the implementation of the LMP.</p> <p>c. A full description on the effects of the development on lizard values/habitat (species-by-species) at the site</p> <p>d. A description of all lizard impact management proposed including:</p> <p>i. Identification of habitat areas where disturbance/clearance is to be avoided or minimised.</p> <p>ii. Restoration of an amount of native vegetation habitat comparable to any cleared^g.</p> <p>iii. Maintenance provisions for any planted vegetation to ensure plant establishment.</p> <p>iv. Rock-cairn [or other 'surrogate habitat'] indigenous lizard habitat creation</p> <p>v. Any further impact management actions agreed to with the Department of Conservation as part of any requirements under a Wildlife Act authorisation [i.e. salvage].</p> <p>e. Lizard monitoring to determine habitat-use/colonisation of all remediated/created habitat within two years of the completion of the vegetation clearance activities (methods such as systematic search or a simple index count sufficient)^h.</p> <p>e-f. <u>Any further monitoring measures agreed to following consultation with Te Runanga o Waihao.</u></p> <p>f-g. Contingency provisions.</p>

Commented [JG3]: The suggested amendments have been passed onto Te Runanga o Waihao for comment. ODL have revised to address Te Runanga o Waihao recommendations.

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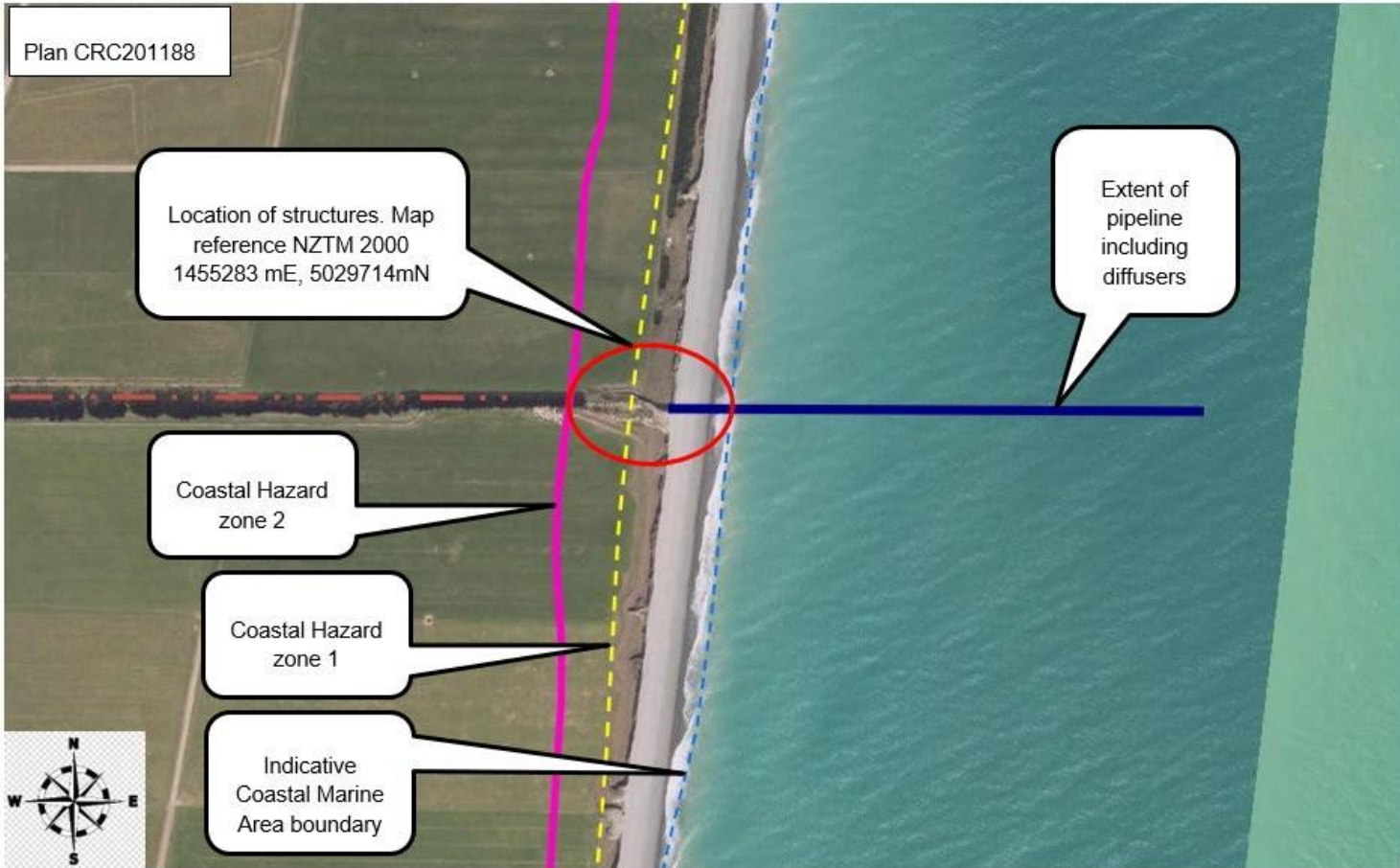
	Advice note: Any plantings should use ecosourced native plant material.
12	<p>Reporting of LMP to Canterbury Regional Council:</p> <ol style="list-style-type: none"> a. A suitably qualified and experienced ecologist/herpetologist approved to oversee the implementation of the Lizard Management Plan (LMP) shall certify and report to Council that the lizard habitat related works have been carried out/initiated according to the certified LMP within one year of the completion of the vegetation clearance activities. b. A report shall be prepared, following the completion of monitoring required, that details the methods used and results of the monitoring, including recommendations for future habitat remediation/creation in similar environments. c. If the findings of the ecologist/herpetologist are that changes to the LMP is required to achieve its objective, including any additional measures or actions, they shall make recommendations to the consent holder as to the changes and/or additional measures or actions that are required.
	Erosion and sediment controls
13	<p>The works authorised under Condition (1) of this resource consent shall occur in accordance with an Erosion and Sediment Control Plan (ESCP). The ESCP shall:</p> <ol style="list-style-type: none"> a. Detail best practicable sediment control measures that will be taken to ensure compliance with this consent; and b. Be prepared in accordance with Environment Canterbury's "Erosion and Sediment Control Toolbox for the Canterbury Region" (ESCT), which can be accessed at http://escscanterbury.co.nz/.
14	<p>The ESCP shall include:</p> <ol style="list-style-type: none"> a. A map showing the location of all works; b. Detailed plans showing the location of sediment control measures, on-site catchment boundaries, and sources of runoff; c. Drawings and specifications of designated sediment control measures; d. A programme of works, which includes but is not limited to, a proposed timeframe for the works; e. Inspection and maintenance of the sediment control measures; f. Any monitoring requirements for sediment plumes in the coastal waters of the immediate vicinity of the works. Recording of such observations (photos if possible) and reporting programme to the CRC. g. The methodology for stabilising the site if works are abandoned; and h. The methodology for stabilising the site and decommissioning erosion and sediment control measures after works have been completed.
15	The ESCP shall be submitted to the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance at least 2 months prior to the

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	works described in Condition (1) commencing, for certification that it complies with the ESCT, and the conditions of this consent. <ul style="list-style-type: none"> a. The earthworks shall not commence until the consent holder has received the certification from the Canterbury Regional Council. b. Notwithstanding Condition (15) (a), if the consent holder has not received the certification within 2 months of the Regional Leader - Monitoring and Compliance receiving the ESCP, the discharge may commence.
	During works
16	Prior to construction commencing, a suitably qualified and experienced ornithologist shall check the gully for penguin presence. If penguins are observed, the temporary laydown areas and work sites will be fenced accordingly and daily checks will be undertaken by the consent holder to ensure that penguins are not within or near the worksite.
17	All practicable measures shall be undertaken to prevent oil and fuel leaks from vehicles and machinery, including, but not limited to: <ul style="list-style-type: none"> a. ensuring that there is no storage of fuel or refuelling of vehicles and machinery within 20 metres of the bed of a river; and b. ensuring that fuel is stored securely or removed from the site overnight
	Certification
18	At least two months prior to the commencement of construction of the ocean outfall and associated works, the consent holder shall submit to the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance, all design plans and certification for the outfall pipeline and associated works. The certificate shall be signed by a suitably qualified and experienced Engineer, certifying that the design plans comply with, or enable compliance with all the conditions of this consent. The certificate shall include sufficient technical information to demonstrate the basis for the certification.
19	Within two months of completion of construction of the ocean outfall, a certificate signed by a suitably qualified and experienced Engineer, certifying that the systems have been constructed in full accordance with the design, and installation specifications submitted in accordance with condition (18) of this consent, shall be submitted to the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance. This engineer shall also sign a statement confirming that they are competent to certify the engineering work.

	Archaeological discovery
20	<p>In the event of any discovery of archaeological material:</p> <ol style="list-style-type: none"> a. the consent holder shall immediately: <ol style="list-style-type: none"> 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 Heritage New Zealand Pouhere Taonga of the disturbance. b. If the archaeological material is determined to be Koiwi Tangata (human bones) or taonga (treasured artefacts) by 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. c. If the archaeological material is determined to be Koiwi Tangata (human bones) by Heritage New Zealand Pouhere Taonga, the consent holder shall immediately advise the New Zealand Police of the disturbance. d. Work may recommence if Heritage New Zealand Pouhere Taonga Trust (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 Heritage New Zealand Pouhere Taonga that work can recommence. <p>Advice Note:</p> <p>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).</p> <p>Advice Note:</p> <p>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.</p> <p>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 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</p>

	Administration
21	<p>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:</p> <ul style="list-style-type: none"> a. Dealing with any adverse effect on the environment that may arise from the exercise of the consent or b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment.
22	<p>This consent shall lapse ten years after the commencement date, unless the consent is before that lapsing date in accordance with section 125 of the Resource Management Act 1991.</p> <p>Advice note: 'Exercised' is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</p>



Recommended Conditions for Consent Application CRC201190

Proposed Activity: Coastal Permit (s12) to disturb and deposit material to the foreshore or seabed, to erect and place structures and to occupy CMA

Proposed Consent Duration: 35 years

Proposed Conditions:

	General
1	The activity shall be limited to: a. The disturbance and deposition of material on the foreshore and seabed; b. Erection and placement of structures in the Coastal Marine Area; and c. The permanent occupation of the Coastal Marine Area by structures.
2	The permanent occupation of the Coastal Marine Area shall be limited to the structures required for the operation of the outfall pipeline and outfall diffusers, located between the Coastal Marine Area boundary, and the end of the furthestmost diffuser as shown on Plan CRC201190 which forms part of this resource consent.
3.	The structures referred to in Condition (2) shall be located within the area shown on Plan CRC201190.
	Prior to works
4	The consent holder shall notify the Canterbury Regional Council, attention: Attention Regional Leader - Monitoring and Compliance, at least seven working days prior to the commencement of the authorise works under Condition (1) and within seven working days after the completion of the works.
5	Prior to the commencement of the works described in Condition (1) of this resource consent, all persons undertaking works shall be made aware of, and have access to the contents of: a. This resource consent document; and

	b. The Construction Management Plan required under Condition (6) of this resource consent.
	Construction Management Plan
6	<p>No later than two months prior to the commencement of the construction works authorised by this consent, the consent holder shall prepare and submit to the Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance, a Construction Management Plan.</p> <p>The objectives of the Construction Management Plan shall be:</p> <ol style="list-style-type: none"> to ensure that the construction activities achieve compliance with the conditions of this resource consent; to avoid, where practicable, adverse environmental effects and, where not practicable, to ensure appropriate mitigation or appropriate remediation is undertaken; to minimise the release of sediment to water during construction activities to provide methods to ensure that persons under its control respect and apply the Construction Management Plan. to integrate good environmental practice into construction activities.
7	<p>In achieving the objectives described in condition (6), the Construction Management Plan shall be prepared in consultation with the Canterbury Regional Council and shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> a description of the location and extent of the works; the best practicable measures that will be adopted during construction to avoid, remedy or mitigate construction effects within the coastal marine area; the contact details of the lead contractor; the timing and duration of each phase, including the working hours within which works will be undertaken; the construction method(s) to be adopted including but not limited to sediment control; public access and pipeline signage during the construction period; details of all Maritime Safety Authority permits and notices to mariners that have been obtained in relation to the works; details of any permanent maritime signage required; a description of the use of any hazardous chemicals, including fuels and oils, stored or used and their storage requirements; emergency procedures; j. <u>an accidental discovery protocol, developed in consultation with the Department of Conservation and Te Rūnanga o Waihao.</u> k. An Environmental Management Plan covering an assessment of environmental effects on the following: <ol style="list-style-type: none"> Noise Lights on vessels Marine biosecurity Hydrocarbon and other contaminant spills Environmental monitoring and reporting that will be undertaken

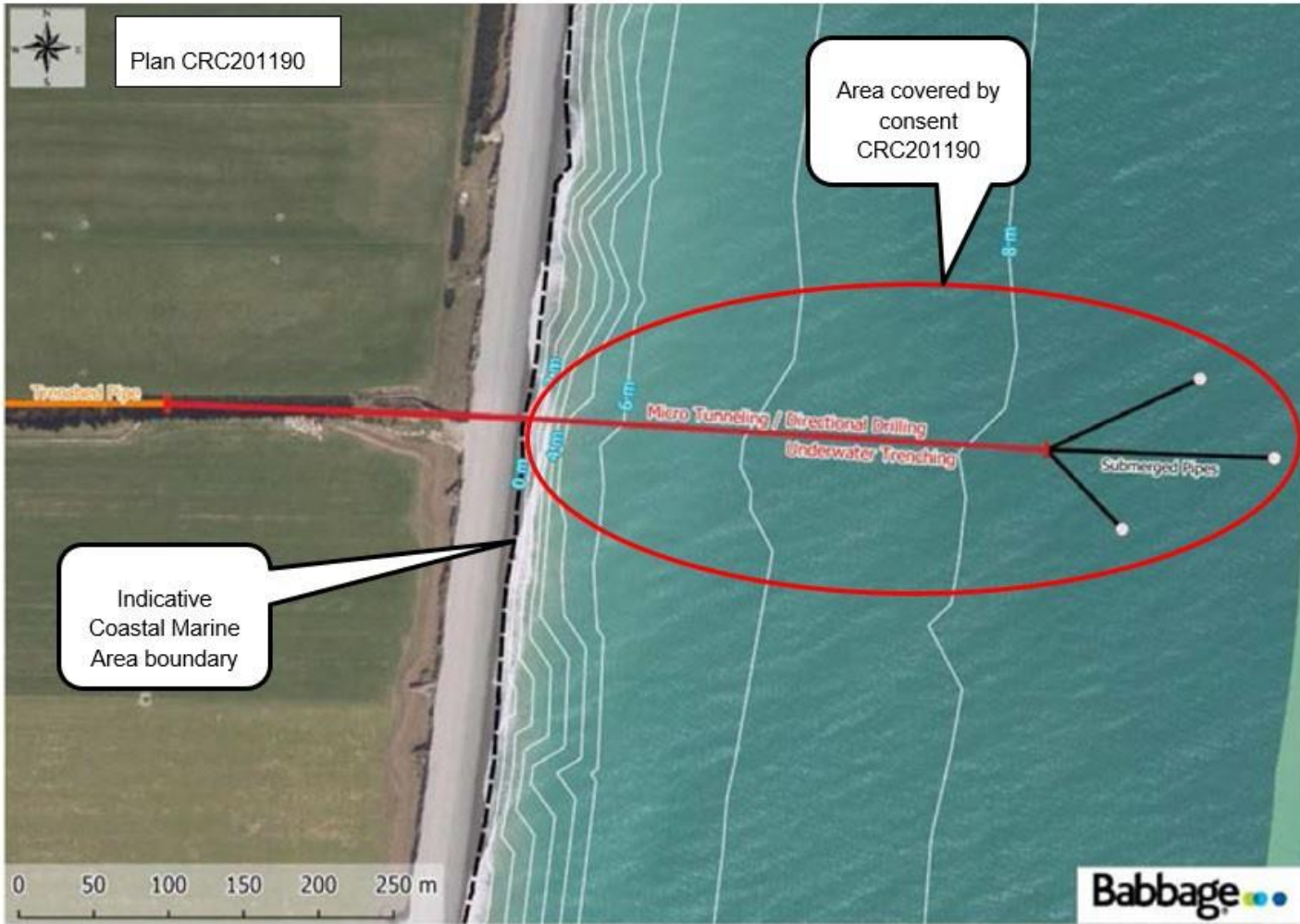
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8	<p>Construction Works shall not commence until:</p> <ul style="list-style-type: none"> a. the Canterbury Regional Council has certified that the Construction Management Plan meets the objectives described in condition (6) and includes the matters described in condition (7); or b. if the Canterbury Regional Council confirms receipt but then fails to provide any further response to the consent holder within a period of one month then the Construction Management Plan shall be deemed to be certified.
9	<p>Any subsequent amendment to the Construction Management Plan shall require certification from the Canterbury Regional Council in accordance with the procedure outlined in conditions (6) to (8) (as if the references to the Construction Management Plan were references to the amendment).</p>
	<p>During works</p>
10	<p>If a dredging method is used to place the pipeline and other structures in/on the seabed, the applicant shall carry out continuous, telemetered turbidity monitoring using loggers installed on moored buoys, for three months prior to and during construction. The dredging shall not result in the turbidity in the water at sites 250 m away from the pipeline exceeding the trigger values in the water quality monitoring plan. This will require:</p> <ul style="list-style-type: none"> a. A water quality monitoring plan which will include: <ul style="list-style-type: none"> i. The equipment to be used ii. The sampling locations iii. Details on the operation of the loggers (frequency of logging, logger maintenance, data processing, data assessment and data reporting) iv. The trigger values to be used (percentiles and time components – as calculated from the baseline data) v. The relevant qualifications and experience of the personnel involved b. The water quality monitoring plan shall be prepared and carried out by experienced and suitably qualified consultants. c. The trigger values shall be agreed upon by the consent holder and Canterbury Regional Council prior to any dredging. d. Any trigger value exceedance to be reported to the Canterbury Regional Council within 24 hours of occurrence. e. A plan of the responses that will occur should the dredging activity cause a trigger to be exceeded.
	<p>Site remediation</p>
11	<p>Following the completion of works:</p>

	<ul style="list-style-type: none"> a. All areas subject to earth working shall be stabilised and reinstated to the natural beach profile of neighbouring adjacent beach areas as soon as practicable; b. Material used to reinstate the beach profile shall only be natural excavated beach material, or material of similar type and size consistent with the neighbouring natural beach material; and c. All accumulated debris and other waste material shall be removed from the site.
	Beach signage and Marine Charts
12	<p>Immediately following construction of the outfall, the consent holder shall:</p> <ul style="list-style-type: none"> a. Erect warning signage on the beach, in a position clearly visible from the coastal marine area, if required to do so by the Director of Maritime Safety appointed under the Marine Transport Act 1994 (the DMS), or by Land Information New Zealand (LINZ), as the National Hydrographic Authority for New Zealand; b. Ensure the signage includes, for any recreational users of the beach, notice that the outfall for the Oceania Dairy Processing Site is located at that location; and c. Provide map references of the position of the outfall pipeline and outfall diffuser to the DMS and LINZ.
	Certification
13	<p>At least two months prior to the commencement of construction of the ocean outfall and associated works, the consent holder shall submit to the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance, all design plans and certification for the outfall pipeline and associated works.</p> <p>The certificate shall be signed by a suitably qualified and experienced Engineer, certifying that the design plans comply with, or enable compliance with all the conditions of this consent. The certificate shall include sufficient technical information to demonstrate the basis for the certification.</p>
14	<p>Within two months of completion of construction of the ocean outfall, a certificate signed by a suitably qualified and experienced Engineer, certifying that the systems have been constructed in full accordance with the design, and installation specifications submitted in accordance with condition (13) of this consent, shall be submitted to the Canterbury Regional Council, Attention Regional Leader - Monitoring and Compliance. This engineer shall also sign a statement confirming that they are competent to certify the engineering work.</p>
	Inspection and Maintenance of the outfall pipeline and outfall diffusers

15	<p>The consent holder shall undertake a visual inspection of the outfall pipeline and outfall diffusers once a year and after any significant tsunami event, to ensure that the structures have not been moved and are maintained in good working order.</p> <p>If no significant movement is detected after five years of annual inspections, the inspection rate shall be changed to every 5 years and after any significant tsunami event.</p> <p>The consent holder shall, within two months of this inspection, submit a report to the Canterbury Regional Council Attention: Regional Leader - Monitoring and Compliance, describing the outcome of the inspection.</p>
16	<p>For the duration of this consent, the consent holder shall undertake (for the purposes of determining if there is any evidence of beach weaknesses and gravel washout):</p> <ul style="list-style-type: none"> a. six monthly visual inspections of the beach; and b. inspections of the beach following any significant overtopping event; c. where the pipeline has been laid and 100 metres north and south of the beach crossing point.
17	<p>The consent holder shall undertake visual inspection of any exposed surfaces annually, and clean any surfaces that show signs of biofouling.</p>
18	<p>The consent holder shall, within two months of any inspection undertaken in accordance with condition (15) (16) and and (17) above, submit a report to the Canterbury Regional Council Attention: Regional Leader - Monitoring and Compliance, that includes but is not limited to detail on:</p> <ul style="list-style-type: none"> a. the date and time of the inspection; b. the condition of the outfall pipeline and outfall diffuser; and c. should there be any evidence of beach weakness or gravel washout, this shall be repaired or removed by the consent holder to the satisfaction of the Southern Area Engineer within one month of the weakness or washout being identified; and d. Any cleaning of biofouling undertaken on exposed surfaces of the pipeline or diffusers.
	<p>Review</p>

19	<p>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:</p> <ul style="list-style-type: none"> a. Dealing with any adverse effect on the environment that may arise from the exercise of the consent or b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment.
	Lapsing
20	<p>This consent shall lapse ten years after the commencement date, unless the consent is exercised before that lapsing date in accordance with section 125 of the Resource Management Act 1991.</p> <p>Advice note: 'Exercised' is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</p>



Recommended Conditions for Consent Application CRC201194

Proposed Activity: Discharge Permit (s15) to discharge treated wastewater into CMA

Site Location: MORVEN ROAD & ARCHIBALD ROAD, GLENAVY

Proposed Consent Duration: 35 years

Proposed Conditions:

	General
1	<p>The activity shall be limited to the discharge of <u>milk processing waters</u>, including milk processing plant condensate water, tanker clean in place washwater, <u>tanker hoop washwater</u> and factory washwater including diluted cleaning chemicals into the Coastal Marine Area.</p> <p>Advice notice: for the purpose of this consent, the above types of wastewater discharge shall be referred to collectively as "the wastewater".</p>
2	<p>The wastewater shall be discharged into the Coastal Marine Area via an outfall pipeline and three ocean outfall diffusers attached to the seabed. The three diffusers shall be located in the area shown on Plan CRC201194, which forms part of this consent. The landward end of the diffusers shall be located not less than 300 metres from the shoreline at mean sea level as shown on Plan CRC201194.</p>
	Final outfall design
3	<p>Prior to construction the consent holder shall, through numerical or physical modelling, demonstrate that the diffuser design will achieve a minimum dilution of 300:1 (measured at a point 50 metres horizontally from the diffuser) at a discharge rate of 116 litres per second.</p>
	Operation of the wastewater treatment plant and discharge
4	<p>The wastewater treatment plant shall comprise at a minimum:</p> <ol style="list-style-type: none"> Dissolved air flotation to remove fat and suspended matter; Secondary treatment with biological reactor tanks to reduce organic and nutrient constituents; UV treatment for reduction of pathogens

Commented [JG5]: Milk processing water can include a range of 'clean' wastewater streams that aren't listed here. Refer paragraph 2, section 4.3 of the AEE

Commented [JG6]: Water used to wash the tanker exteriors

	Wastewater Treatment Plant Management Plan
5	<p>No later than two months prior to the commencement of the discharge authorised by this consent, the consent holder shall prepare and submit to the Canterbury Regional Council, Attention: Regional Leader - Monitoring and Compliance, a Wastewater Treatment Plant Management Plan.</p> <p>The objectives of the Wastewater Treatment Plant Management Plan shall be:</p> <ol style="list-style-type: none"> a. to ensure that the operation of the future Wastewater Treatment Plant upgrade complies with the conditions of this resource consent; b. to avoid, where practicable, adverse environmental effects and, where not practicable, ensure appropriate mitigation or appropriate remediation is undertaken; c. to provide methods to ensure that persons under its control respect and apply the Wastewater Treatment Plant Management Plan; and d. to integrate good environmental practice into the operation of the Wastewater Treatment Plant and associated discharge activities.
6	<p>In achieving the objectives described in condition (5), the Wastewater Treatment Plant Management Plan shall include, but not be limited to, the following:</p> <ol style="list-style-type: none"> a. the management and operational procedures required to comply with the conditions of this resource consent that relate to the operation of the Wastewater Treatment Plant; b. the training for staff to operate the Wastewater Treatment Plant; c. the frequency of monitoring observations and methods to be used (which shall be developed in consultation with the Canterbury Regional Council); and d. the identification of staff and contractor responsibilities.
7	<p>The wastewater discharge shall not commence until:</p> <ol style="list-style-type: none"> a. the Canterbury Regional Council has certified that the Wastewater Treatment Plant Management Plan meets the objectives described in condition (5) and includes the matters described in condition (6); or b. if the Canterbury Regional Council confirms receipt but then fails to provide any further response to the consent holder within a period of two months then the Wastewater Treatment Plant Management Plan shall be deemed to be certified.
8	<p>Any subsequent amendment to the Wastewater Treatment Plant Management Plan shall be certified by the Canterbury Regional Council in accordance with the procedure outlined in conditions (5) to (7) (as if the references to the Wastewater Treatment Plant Management Plan were references to the amendment).</p>

9	The consent holder shall advise the Canterbury Regional Council Attention: Regional Leader - Monitoring and Compliance, in writing of the date of commencement of the discharge authorised by this consent prior to the first discharge taking place.
	Flow Limits and Measurement
10	The discharge shall not exceed a maximum volume of 10,000 cubic metres per day and a maximum flow rate of 116 litres per second.
11	A continuous measurement of the flow discharged to the outfall pipeline shall be maintained. Such records shall be retained and made available to the Canterbury Regional Council on request.
	Wastewater monitoring
12	<p>The wastewater shall be continuously monitored at the end of the treatment plant prior to discharge to the outfall pipeline.</p> <p>a. Analysis shall be undertaken by either:</p> <ul style="list-style-type: none"> i. laboratory analysis of a physical sample; or ii. by certified online measurement instruments. <p>b. Results of the analysis shall report the Parameter in the Units, at a weekly frequency and for a 24 hour composite sample as listed below:</p> <ul style="list-style-type: none"> i. Chemical oxygen demand (COD) in grams per cubic metre; ii. Five day biochemical oxygen demand (BOD) in grams per cubic metre; iii. Total suspended solids (TSS) in grams per cubic metre; iv. Total nitrogen in grams per cubic metre; v. Nitrate nitrogen in grams per cubic metre; vi. Dissolved inorganic nitrogen in grams per cubic metre; vii. Ammonium-nitrogen in grams per cubic metre; viii. pH; ix. Total phosphorus in grams per cubic metre; x. Dissolved reactive phosphorus in grams per cubic metre; xi. Dissolved Arsenic <u>Arsenic</u> in milligrams per cubic metre; xii. Dissolved cadmium <u>Cadmium</u> in milligrams per cubic metre; xiii. Dissolved chromium <u>Chromium</u> in milligrams per cubic metre; xiv. Dissolved copper <u>Copper</u> in milligrams per cubic metre; xv. Dissolved lead <u>Lead</u> in milligrams per cubic metre; xvi. Dissolved nickel <u>Nickel</u> in milligrams per cubic metre; xvii. Dissolved zinc <u>Zinc</u> in milligrams per cubic metre.

Commented [JG7]: Removed reference to dissolved in accordance with Dr Wilson's evidence

13	<p>The results of analysis of the wastewater sampled in accordance with condition (12) shall be compared with the trigger values provided in the below table.</p> <table border="1" data-bbox="272 622 1013 1205"> <thead> <tr> <th>Parameter</th> <th>Median</th> <th>95 percentile</th> </tr> </thead> <tbody> <tr> <td>COD</td> <td>150 g/m³</td> <td>300 g/m³</td> </tr> <tr> <td>BOD</td> <td>30 g/m³</td> <td>50 g/m³</td> </tr> <tr> <td>TSS</td> <td>50 g/m³</td> <td>70 g/m³</td> </tr> <tr> <td>Total nitrogen</td> <td>15 g/m³</td> <td>20 g/m³</td> </tr> <tr> <td>Nitrate nitrogen</td> <td>10 g/m³</td> <td>15 g/m³</td> </tr> <tr> <td>Dissolved inorganic nitrogen</td> <td>12 g/m³</td> <td>15 g/m³</td> </tr> <tr> <td>Ammonium nitrate</td> <td>2 g/m³</td> <td>4 g/m³</td> </tr> <tr> <td>pH</td> <td>7-9</td> <td></td> </tr> <tr> <td>Total phosphorus</td> <td>2 g/m³</td> <td>4 g/m³</td> </tr> <tr> <td>Dissolved reactive phosphorus</td> <td>2 g/m³</td> <td>4 g/m³</td> </tr> <tr> <td>Dissolved arsenic Arsenic</td> <td></td> <td>50 mg/m³</td> </tr> <tr> <td>Dissolved cadmium Cadmium</td> <td></td> <td>2 mg/m³</td> </tr> <tr> <td>Dissolved chromium Chromium</td> <td></td> <td>50 mg/m³</td> </tr> <tr> <td>Dissolved copper Copper</td> <td></td> <td>10 mg/m³</td> </tr> <tr> <td>Dissolved lead Lead</td> <td></td> <td>5 mg/m³</td> </tr> <tr> <td>Dissolved nickel Nickel</td> <td></td> <td>15 mg/m³</td> </tr> <tr> <td>Dissolved zinc Zinc</td> <td></td> <td>100 mg/m³</td> </tr> </tbody> </table> <p>The median value shall be calculated on a rolling basis from the previous 10 consecutive samples. The 95th percentile value shall be calculated on a rolling basis from the previous 20 consecutive samples.</p>	Parameter	Median	95 percentile	COD	150 g/m ³	300 g/m ³	BOD	30 g/m ³	50 g/m ³	TSS	50 g/m ³	70 g/m ³	Total nitrogen	15 g/m ³	20 g/m ³	Nitrate nitrogen	10 g/m ³	15 g/m ³	Dissolved inorganic nitrogen	12 g/m ³	15 g/m ³	Ammonium nitrate	2 g/m ³	4 g/m ³	pH	7-9		Total phosphorus	2 g/m ³	4 g/m ³	Dissolved reactive phosphorus	2 g/m ³	4 g/m ³	Dissolved arsenic Arsenic		50 mg/m ³	Dissolved cadmium Cadmium		2 mg/m ³	Dissolved chromium Chromium		50 mg/m ³	Dissolved copper Copper		10 mg/m ³	Dissolved lead Lead		5 mg/m ³	Dissolved nickel Nickel		15 mg/m ³	Dissolved zinc Zinc		100 mg/m ³
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14	<p>If any of the trigger values identified in condition (13) are exceeded more than three months after commissioning the Waste Water Treatment Plant, the consent holder shall:</p> <ol style="list-style-type: none"> a. As soon as possible: <ol style="list-style-type: none"> i. Increase the frequency of wastewater sampling and analysis to one composite sample per day for a period of ten days, for the contaminant for which the exceedance was recorded; ii. advise the Canterbury Regional Council of the trigger value exceedance; and iii. determine the reason for the exceedance of the trigger value. b. prepare a report on the results of the additional sampling and analysis, and any other investigations carried out, and identify all practicable measures to reduce the concentration of the contaminant in the final discharge to prevent a recurrence of the exceedance. This report shall be prepared by a suitably qualified person and shall include a thorough 																																																						

Commented [JG8]: ODL have not been able to confirm if the 95 percentile parameters for the additional metals can be met. ODL will be able to comment on this condition at or before the hearing.

	<p>assessment of the cause of the exceedance and the identified measures are appropriate to prevent a recurrence of the exceedance;</p> <p>c. submit the report and the certification specified to the Canterbury Regional Council within two months of receiving the results of the analysis required for the completion of the report under condition 14 (b).</p> <p>d. If any trigger values in Condition (13) are exceeded for a period of more than 30 weeks, the discharge via the outfall shall cease and not recommence until daily monitoring shows that trigger levels are not exceeded for a period of at least ten days.</p>																		
15	The measures identified in the report required under condition 14 (b) shall be implemented as soon as practicable and confirmation of that implementation shall be provided to the Canterbury Regional Council, Attention: RMA Compliance and Monitoring Manager as soon as practicable after completion of the measures.																		
	Monitoring for indicator bacteria and pathogens																		
16	<p>The wastewater shall be sampled prior to the discharge to the outfall pipeline for the parameters and frequencies identified in this condition and these samples shall be analysed for the biological contaminants listed below, with maximum values shown as trigger levels:</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Frequency</th> <th>Interim median trigger value</th> </tr> </thead> <tbody> <tr> <td>Enterococci</td> <td>Fortnightly for 24 months</td> <td>100 cfu/100ml</td> </tr> <tr> <td>Faecal coliforms</td> <td>Fortnightly for 24 months</td> <td>100 cfu/100ml</td> </tr> <tr> <td>Escherichia coli</td> <td>Fortnightly for 24 months</td> <td>100 cfu/100ml</td> </tr> <tr> <td>Pseudomonas aeruginosa <u>Staphylococcus aureus</u></td> <td>Fortnightly for 24 months</td> <td>100 cfu/100ml</td> </tr> <tr> <td>Listeria spp.</td> <td>Fortnightly for 24 months</td> <td>100 cfu/100ml</td> </tr> </tbody> </table> <p>The median value shall be calculated on a rolling basis from the previous 10 consecutive samples.</p>	Parameter	Frequency	Interim median trigger value	Enterococci	Fortnightly for 24 months	100 cfu/100ml	Faecal coliforms	Fortnightly for 24 months	100 cfu/100ml	Escherichia coli	Fortnightly for 24 months	100 cfu/100ml	Pseudomonas aeruginosa <u>Staphylococcus aureus</u>	Fortnightly for 24 months	100 cfu/100ml	Listeria spp.	Fortnightly for 24 months	100 cfu/100ml
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17	<p>At the end of the two-year initial monitoring period required by condition (16), the consent holder shall engage a suitably qualified person with experience in the operation of Wastewater Treatment Plants to advise on:</p> <p>a. The relationship between indicator bacteria and pathogens (from the data collected); and</p> <p>b. The need for ongoing future monitoring of pathogens and/or indicator bacteria and the duration of that monitoring); and</p> <p>c. The triggers that should apply; and</p>																		

Commented [JG9]: Amended as per evidence from Dr Stott

	<p>d. When further reviews of the monitoring and limits should take place.</p> <p>This shall be presented in a report (Future Monitoring Report) and be submitted to the Canterbury Regional Council within 2 months after the expiry of the 24 month period.</p>
18	<p>If, during the two-year initial monitoring period required by condition (16), sampling demonstrates that the wastewater has exceeded the trigger(s) specified, the consent holder shall engage a qualified person with experience in the operation of wastewater treatment plants to prepare a report advising on the possible causes of the exceedance(s), system changes and management techniques to avoid future exceedances (the Exceedance Report):</p> <ol style="list-style-type: none"> a. the qualified person shall prepare and submit to the Canterbury Regional Council an Exceedance Report within one month of the exceedance; b. the consent holder shall implement any changes recommended in the report.
19	<p>In the event that:</p> <ol style="list-style-type: none"> a. the Canterbury Regional Council certifies (and accepts the recommendations (if any) set out in the Future Monitoring Report, the consent holder shall implement the recommendations for ongoing monitoring, limits and monitoring reviews at the time certification is provided; or b. If the Canterbury Regional Council confirms receipt but then fails to provide any further response to the consent holder within a period of two months, then the consent holder shall implement the recommendations for ongoing monitoring, limits and future reviews
20	<p>In the event that there are no exceedances of the trigger values during the two year initial monitoring period required by condition (16), the consent holder shall, as a minimum, at the fifth anniversary of that period and thereafter every five years, carry out monthly sampling of the wastewater for a period of six months prior to the discharge to the outfall pipeline, to assess:</p> <ol style="list-style-type: none"> a. <i>Pseudomonas aeruginosa</i>; and b. <i>Listeria spp.</i> c. Enterococci d. <i>E.coli</i> e. Faecal coliforms <p>The results of this sampling shall be presented in a report (Five Year Anniversary Report) and shall be submitted to the Canterbury Regional Council within 2 months after the expiry of each five year period.</p>
21	<p>If a Five Year Anniversary Report shows exceedances of the trigger values for pathogens and faecal indicator bacteria identified in condition (16), the consent holder shall engage a qualified person with experience in the operation of wastewater treatment plants to prepare a Future Monitoring</p>

	Report. The Future Monitoring Report shall be prepared in accordance with Conditions (17).
	Benthic monitoring
22	<p>At least two months prior to the commissioning of the outfall, and thereafter at five yearly intervals, the consent holder shall undertake a benthic monitoring survey to determine the infauna/epifauna species composition and abundance, at three sites just outside the mixing zone to the north, south and east, and at three control sites, 1,000 metres to the north and south of the outfall and 600 metres to the east of the outfall. The consent holder shall ensure there will be:</p> <ol style="list-style-type: none"> a. No statistically significant difference <u>(beyond natural variation)</u> in the presence and absence of the benthic biota just beyond the edge of the mixing zone and at control sites. b. The direction of change in the biota over time at sites just beyond the edge of the mixing zone should be comparable to that at control sites. <p>The number of replicates collected at each site is to be determined with Canterbury Regional Council, Regional Leader- Monitoring and Compliance prior to collection of the baseline data.</p>
23	<ol style="list-style-type: none"> a. Five years after the commissioning of the outfall, and thereafter at five yearly intervals, the applicant shall sample seabed sediment, at the same locations as benthic biota monitoring is carried out as per Condition (22), for the following parameters: <ol style="list-style-type: none"> i. Arsenic; ii. Cadmium; iii. Chromium; iv. Copper; v. Lead; vi. Nickel; vii. Total organic carbon; viii. Organic matter content; ix. Total nitrogen; x. Total reactive phosphorus; and xi. Grain size distribution (wet sieving, 7 size fractions) b. At each site, three replicate sediment samples shall be collected and analysed by an IANZ accredited laboratory. c. The sediment monitoring data shall be collated into a report and provided to the Canterbury Regional Council within three months of monitoring occurring. d. This monitoring programme shall be reviewed after two rounds of monitoring. This review shall be used to determine the frequency of future monitoring.

Commented [JG10]: As per evidence provided by Ms Coates

Receiving environment water quality monitoring	
24.	The consent holder shall carry out monthly <u>surface</u> sampling at three edges of mixing zone sites and two control sites. The edge of mixing zone sites shall be at the northern, southern and eastern edge of the 50 metre mixing zone. The control sites shall be 1, 000 metres north and south of the north and south edge of the mixing zone sites. Each sample is to be analysed for the parameters listed below. The results are to be assessed against the relevant guideline values provided in the table below:
Parameter	Guideline value
Water temperature	shall not exceed 25°C and no value > 3°C different to natural conditions
pH	No value > 0.2 units compared to natural conditions
Dissolved oxygen % saturation	value must be >80%
Guideline value (mg/L) (Annual median)	
Ammoniacal nitrogen	0.016
Nitrate + nitrite nitrogen	0.07
Dissolved inorganic nitrogen	0.083
Total nitrogen	0.25
Dissolved reactive phosphorus	0.0091
Total phosphorus	0.032
Total suspended solids	35
Guideline value (mg/L) Maximum, any value	
Dissolved cadmium Cadmium	0.0007
Dissolved c Chromium (IV)	0.00014
Dissolved copper Copper	0.0003
Dissolved l Lead	0.0022
Dissolved nicke Nickel	0.007
Dissolved zine Zinc	0.007

Commented [JG11]: ODL have not been able to confirm if the new condition parameters can be met. ODL will be able to comment on this condition at or before the hearing.

25	If the guideline values as outlined in condition (24) are met in each monthly sampling for the first year, sampling frequency shall decrease to monthly sampling for a year every ten years.
	Sampling and analysis
26	All sampling required under this consent shall be undertaken by a suitably qualified person who has completed appropriate training.
27	Any testing and analysis of samples (water and sediment) required by virtue of the monitoring requirements of this resource consent shall be carried out by a suitably accredited organisation and laboratory for the tests and analyses involved.
28	Notwithstanding any other conditions in this resource consent, the discharge authorised shall not give rise to any of the following effects beyond the mixing zone: <ul style="list-style-type: none"> a. the production of conspicuous oil or grease films, scums or foams or floatable suspended materials; b. any conspicuous change in the colour or visual clarity; c. any emission of objectionable odour; and d. any significant adverse effects on aquatic life.
	Annual environmental report
29	The consent holder shall provide an annual report to the Canterbury Regional Council by 30 September each year. The report shall include, but not be limited to: <ul style="list-style-type: none"> a. a summary and interpretation of the data collected under the conditions of this resource consent and comparison against trigger levels; b. a comparison of the results against results from previous sampling periods; c. an explanation of any operational difficulties, changes or improvements made to the processes which could result in changes in environmental effects; d. if applicable, an outline of any measures undertaken to mitigate any adverse environmental effects to prevent a reoccurrence and comment on the effectiveness of these measures; and e. a discussion of any practical measures implemented to address standards or trigger value exceedances during the period.

	Complaints register
30	<p>The consent holder shall maintain a Complaints Register for the purpose of recording and dealing with any complaints that are received by the consent holder in relation to the exercise of this resource consent. The Complaints Register shall record, where this information is available:</p> <ol style="list-style-type: none"> a. the date, time and duration of the incident that has resulted in a complaint; b. the location of the complainant at the time of the incident; and c. any corrective action undertaken by the consent holder in response to the complaint, including timing of that corrective action
31	<p>The Complaints Register shall be made available to the Canterbury Regional Council (with a copy being provided to the Waimate District Council) at all reasonable times on request. Complaints relating to the conditions of this resource consent shall be forwarded to the appropriate Council within 48 hours of the complaint being received.</p>
	Community liaison group
32	<p>Within one month of commencing construction works, the consent holder shall place a public advertisement in the relevant local Waimate Community Newspaper inviting local residents and interested people to attend a meeting to attend a meeting to establish a Community Liaison Group:</p> <ol style="list-style-type: none"> a. the invitation to attend and establish a Community Liaison Group shall be extended to: <ol style="list-style-type: none"> i. all property owners with boundaries adjoining, or but for the presence of roads and railway lines, immediately next to the site; ii. Compliance Officers from Waimate District Council and Canterbury Regional Council; iii. Te Runanga o Waihao. b. a representative of the consent holder shall attend all meetings of the Community Liaison Group; and c. the consent holder shall ensure that members of the Community Liaison Group are provided with the opportunity and facilities to meet at least twice per year throughout the duration of this consent.
33	<p>The main purposes of the Community Liaison Group shall be to discuss with the consent holder:</p> <ol style="list-style-type: none"> a. construction management issues; b. the results of all monitoring and reporting required under the resource consents relating to the ocean outfall consent; and c. any community concerns regarding the effects of the construction and operation of the ocean outfall.

34	Following establishment, the consent holder shall facilitate the continuation of the Community Liaison Group for the term of the consent.
	Review
35	<p>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:</p> <ul style="list-style-type: none"> a. Dealing with any adverse effect on the environment that may arise from the exercise of the consent or b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment. c. Requiring monitoring in addition to, or instead of, that required by the consent.
	Lapsing
36	<p>This consent shall lapse ten years after the commencement date, unless the consent is exercised before that lapsing date in accordance with section 125 of the Resource Management Act 1991.</p> <p>Advice note: 'Exercised' is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</p>

Recommended Conditions for Consent Application CRC201192

Proposed Activity: Discharge Permit (s15) to discharge dewatering water to land or water

Site Location: MORVEN ROAD & ARCHIBALD ROAD, GLENAVY

Proposed Consent Duration: 10 years

Proposed Conditions:

1	This consent shall authorise the discharge of groundwater from site dewatering associated with CRC201191 to land parcels shown on Plan CRC201192 and/or adjacent irrigation channels in connection with the earthworks authorized under CRC201187.
2	Groundwater shall be discharged into settling tanks for removal of sediment prior to discharge.
3	If discharge of groundwater occurs to irrigation channels, the consent holder shall ensure: a. That the concentration of total suspended solids in the discharge does not exceed 100g/m ³ ; b. That the rate of flow in the irrigation channel is at least five times the rate of the discharge; c. That the discharge shall not cause erosion or scouring to the banks or bed.
4	If discharge of dewatering water occurs to land, the consent holder shall monitor the discharging quantities to ensure that no ponding of groundwater on the land surface occurs.
Complaints register	
5	The consent holder shall maintain a Complaints Register for the purpose of recording and dealing with any complaints that are received by the consent holder in relation to the exercise of this resource consent. The Complaints Register shall record, where this information is available: (a) the date, time and duration of the incident that has resulted in a complaint; (b) the location of the complainant at the time of the incident; and (c) any corrective action undertaken by the consent holder in response to the complaint, including timing of that corrective action.

	The Complaints Register shall be made available to the Canterbury Regional Council (and the Waimate District Council) at all reasonable times on request. Complaints relating to the conditions of this resource consent shall be forwarded to the appropriate Council within 48 hours of the complaint being received.
	Review
6	<p>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:</p> <ul style="list-style-type: none"> a. Dealing with any adverse effect on the environment that may arise from the exercise of the consent or b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment. c. requiring monitoring in addition to, or instead of, that required by the consent.
	Lapse date
7	<p>This consent shall lapse ten years after the commencement date, unless the consent is exercised before that lapsing date in accordance with section 125 of the Resource Management Act 1991.</p> <p>Advice note: ‘Exercised’ is defined as implementing any requirements to operate this consent and undertaking the activity as described in these conditions and/or application documents.</p>

