

Barrytown Minerals Project

Southern Block

Appendix P1

Proposed Resource Consent Conditions – District and Regional Council

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General Conditions for Grey District Council and West Coast Regional Council	
1.0 General	
1.1	The Consent Holder must carry out the mineral sand mining and associated activities in general accordance with the application made through the Fast-track Approvals process, the Site Plan enclosed as Schedule 1 prepared by Tai Poutini Resources Ltd and the following management plans [to be inserted] .
1.2	The Consent Holder must ensure all staff and contractors are made aware of, and have access to, and comply with, the resource consent conditions prior to the commencement of mining. A copy of the resource consent conditions must also be readily available on-site.
1.3	All actual and reasonable costs incurred by the Consent Authorities in monitoring, enforcement and administration of this resource consent must be met by the Consent Holder.
1.4	<p>a. Within 2 months of the commencement of these consents, the Consent Holder must appoint an Accountable Person to be responsible for ensuring compliance with all conditions of these consents. The Accountable Person must be based on-site for a minimum of 4 hours per day, for three days per week. The Accountable Person must:</p> <ul style="list-style-type: none"> i. Review, submit and ensure compliance with all management plans listed in the conditions of these consents; ii. Ensure there is another person who can provide cover in the event they are sick or unavailable, and to provide for succession ('Nominated Cover Person'); iii. Be the point of contact between the Consent Holder, the Consent Authorities, and the community generally, and pro-actively engage with these parties as required; iv. Deliver on reporting requirements required by the conditions of these consents. <p>b. The Consent Authorities must be advised of the name and contact details of the Accountable Person and the Nominated Cover Person when they are appointed. In the event that the Accountable Person or Nominated Cover Person change, the Consent Authorities must be notified.</p> <p>A sign must be erected at the property boundary adjacent to the site access road, which provides the name and contact details of the Accountable Person and Nominated Cover Person required to be appointed under sub-clause a</p>
2.0 Notification	
2.1	<p>For monitoring purposes, the Consent Holder must notify the Consent Authorities of the following by email (wcrccompliance@wrc.govt.nz and planning@greydc.govt.nz):</p> <ul style="list-style-type: none"> a. The intended commencement date of works on-site at least 15 working days prior to commencement of works on-site; and b. The intended completion of final mine closure rehabilitation activities at least 15 working days prior to works ceasing on-site.
3.0 Review of Conditions	
3.1	<p>Pursuant to Section 128(1) of the Resource Management Act 1991, the Consent Authorities may review any of the conditions of these consents by serving notice on the Consent Holder within a period of 60 working days, commencing on each anniversary of the date of commencement of these consents for any of the following purposes:</p> <ul style="list-style-type: none"> a. To deal with any unanticipated adverse effect on the environment which may arise from the exercise of the consents which is appropriate to deal with at a later stage. b. To assess the effectiveness and appropriateness of imposed monitoring parameters, monitoring regimes and monitoring frequencies and to alter these accordingly. c. To ensure that any management plan required by conditions gives effect to conditions of these consents.
4.0 Bond Conditions	
4.1	The Consent Holder must provide and maintain in favour of the Consent Authorities (the West Coast Regional Council and the Grey District Council [jointly for their respective interests]) a bond or bonds related to mine closure activities and rehabilitation required by these consents.

4.2	The payment of the bond quantum by the Consent Holder, as required by Condition 4.5 must be a bond in favour of the Consent Authorities for the guarantee sum in a form and executed by a surety acceptable to the Consent Authorities
4.3	The guarantor must bind itself to pay up to the bond quantum for the carrying out and completion of all obligations of the Consent Holder under the bond.
4.4	The bond (as set at any time under Condition 4.1) must be held or remain in full force and effect throughout the term of these consents until all conditions under these consents have been performed unless otherwise agreed by the Consent Authorities.
4.5	<p>a. The bond quantum must be \$300,000.</p> <p>b. The method for arriving at the bond quantum does not limit the scope of the bond, which is set by Condition 4.1.</p>
4.6	The provisions of Section 109 of the Resource Management Act 1991 must apply to any bond, or bonds, required pursuant to the above and must not be limited by the details of the bond instrument.
4.7	The amount of the bond must be inflation adjusted after 3 years from the execution of the bond under Condition 4.8 or may be inflation adjusted if requested by the Consent Authorities, by the movement of the CPI relative to the CPI at the date when the bond is first provided.
4.8	<p>The Consent Holder must not exercise these consents:</p> <p>a. Until the bond required by Condition 4.1 has been fully executed by the Consent Holder and guarantor; or</p> <p>b. In respect of any inflation adjusted bond referred to in Condition 4.7, after 30 working days have expired from the date the Consent Holder was notified of the terms of the inflation adjusted bond by the Consent Authorities unless the inflation adjusted bond has been executed with the Consent Authorities by the Consent Holder and guarantor;; or</p> <p>c. In respect of any bond sum changed or reviewed pursuant to Sections 127 or 128 of the Act, after thirty 30 working days have expired from the date the Consent Holder was notified of the decision of the changed or reviewed bond by the Consent Authorities unless the changed or reviewed bond has been executed with the Consent Authorities by the Consent Holder and guarantor; or</p> <p>d. If, during the term of these consents, the whole or any part of the bond is required to be used for the carrying out and completion of all obligations of the Consent Holder under the bond, unless the full bond has been executed with the Consent Authorities by the Consent Holder and guarantor.</p>
4.9	The Consent Holder must complete such work requested in respect of which any bond is held, within the time period nominated by the Consent Authorities' written request.
4.10	If the consents are transferred in part or whole to another party or person, the bond must continue until any outstanding work at the date of transfer is completed to ensure compliance with the conditions of these consents, unless the Consent Authorities are satisfied adequate provisions have been made to transfer the liability to the new Consent Holder.
4.11	In the event of any such transfer of the consents, the Consent Holder must ensure that the transfer provides a replacement bond to the Consent Authorities on the terms required by the Bond Conditions.
4.12	<p>The Consent Holder must meet the costs of providing any bond, or bonds, including the costs of the bond and any substitute bond.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> <i>The Consent Authority will release the bond upon the closure of the mine if all conditions of consent have been complied with to the satisfaction of the Consent Authorities.</i>
5.0 Annual Work Programme	
5.1	At least 40 working days prior to mining activities commencing and thereafter on or before the anniversary date of the mining activities commencing, the Consent Holder must submit a

	<p>programme of work (“Annual Work Programme”) by email (wcrccompliance@wrcr.govt.nz) for approval detailing:</p> <ol style="list-style-type: none"> a. The proposed works to be carried out over the next 12 months including: <ol style="list-style-type: none"> i. Equipment to be used; ii. Areas of topsoil and overburden stripping ; iii. New areas of land disturbance that will be mined; iv. Access tracks; v. Drilling or prospecting sites and other tracks to be constructed; and vi. Any other site works within the consent area. b. The approximate open volume of the mining void at the start of the year including the depth of excavations and the area of the mining void. c. Extent of creek diversions and reclamations. d. The progressive rehabilitation works to be carried out over the next 12 months including: <ol style="list-style-type: none"> i. Areas of unrestored land (i.e. any land not finally topsoiled and revegetated) at the beginning of the 12-month period; ii. The area that will be fully rehabilitated during the forthcoming 12-months; iii. Maximum slope angles, bench heights and widths of recontoured ground, if applicable; iv. Rehabilitation methods and techniques including replacement of topsoil and vegetation cover ; d. Description of measures to prevent adverse effects on natural waterbodies, including drainage works within the consent area, and the collection and treatment of site run-off; e. Measures to ensure soil conservation; f. A description and analysis of any unexpected adverse effects that have arisen as a result of activities within the last 12 months, the steps taken to address those adverse effects and measures implemented to avoid a repeat occurrence of them.
5.2	<p>The following plans, reports and results of monitoring must also be submitted as part of the Annual Work Programme:</p> <ol style="list-style-type: none"> a. A detailed plan or aerial photograph showing: <ol style="list-style-type: none"> i. The open working area at the start of the year; ii. Proposed mine path for the forthcoming year including haul and access roads; iii. Rehabilitated ground behind the mining void area; iv. Location of natural surface water bodies; v. Proposed diversions of creeks, location of fish diversions and reclamations of creeks; vi. Reconstructed creeks; vii. Location of present and intended drainage works and settling ponds; and viii. Any other site works within the consent area. b. A Site Specific Erosion and Sediment Control Plan in accordance with Condition 21.2. c. Results of surface water quality, surface water flows, and groundwater level monitoring from the previous 12 months in the form of an Annual Hydrological and Water Quality Report required by Condition 24.4. d. Any proposed updates to management plans submitted in accordance with the respective conditions of consent. e. Results of any previous dust monitoring required by Condition 26.2.
5.3	<p>The Consent Holder must provide the Consent Authorities with any further information, which the Consent Authorities may reasonably request after considering any Annual Work Programme. This information must be provided within 5 working days of any request from the Consent Authorities.</p>
<p>6.0 Management Plans</p>	
6.1	<p>At least 40 working days prior to undertaking any activities authorised by these consents, the Consent Holder must submit the following management plans to the respective Consent Authorities for certification:</p> <ol style="list-style-type: none"> a. Noise Management Plan b. Avian Management Plan

	<p>c. Lizard Management Plan d. Native Freshwater Fish Capture and Relocation Plan e. Dust Management Plan f. Rehabilitation Management Plan g. Water Management Plan h. Erosion and Sediment Control Plan</p> <p>Advice Notes:</p> <ul style="list-style-type: none"> • These are collectively referred to as ‘Management Plans’. • Where a plan requires the input of an appropriately qualified professional, the Consent Authorities may engage an appropriately qualified person to peer review the plan as part of the certification process. The cost of any required peer reviews will be met by the Consent Holder.
6.2	<p>a. The purpose of the Management Plans is to implement the relevant conditions of these consents. All Management Plans must include (where relevant):</p> <ol style="list-style-type: none"> The purpose/objective of the plan; Reference to the conditions of these consents that the management plan implements; How each of the relevant conditions have been given effect to; Procedures for implementing the relevant plan; Plan auditing check lists; Monitoring programmes and/or monitoring protocols; Feedback mechanisms for adaptive management, including circumstances in which a material change to the management plan would be required; An organisational chart showing staff and contractor positions and responsibilities for plan implementation; Relevant training and induction procedures and training schedules for staff and contractors; and Reporting procedures and format for providing the results of any monitoring or surveys required by the plan. <p>b. Where plans require the input of an appropriately qualified professional, the Consent Holder must engage an appropriately qualified person to prepare the Plan.</p>
6.3	<p>Site activities must not commence until the Management Plans listed in Condition 6.1 have been certified by the Consent Authorities.</p>
6.4	<p>Within 20 working days of the date of submission of a management plan under Condition 6.1, the Consent Authority must:</p> <ol style="list-style-type: none"> Confirm to the Consent Holder that the management plan is certified; or Respond that they are not able to certify the management plan and provide reasons and recommendations to the Consent Holder. <p>Advice Note:</p> <ul style="list-style-type: none"> • If a Consent Authority does not certify a management plan under Condition 6.4b, the Consent Holder will need to resubmit the management plan under Condition 6.1.
6.5	<p>The Consent Holder may amend a management plan at any time to take into account:</p> <ol style="list-style-type: none"> Any positive measure/s to ensure the stated objectives of the management plan are achieved; Any changes required to further reduce the potential for adverse effects as a result of actions identified in the Annual Work Programme; and Any required actions identified as a result of monitoring to address a. or b. <p>Where the preparation of a management plan required the input of an appropriately qualified person, any amendment to that management plan must also be undertaken by an appropriately qualified person.</p>

	<p>Advice Note:</p> <ul style="list-style-type: none"> Some management plans have ongoing annual review requirements which are required in order to manage effects. These specific review requirements are stipulated in the relevant conditions of this consent.
6.6	<p>Any amended management plan must be provided to the Consent Authorities within 20 working days of its review, for recertification in accordance with Condition 6.1.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> The Consent Authorities may engage an appropriately qualified person to peer review the amendments.
6.7	<p>A management plan may only be amended in a way that is consistent with, and does not contravene, the conditions of these resource consents.</p>
6.8	<p>Within 20 working days of the date of submission of a management plan under Condition 6.6, the Consent Authorities must:</p> <ol style="list-style-type: none"> Confirm to the Consent Holder the management plan is certified; or Respond that they are not able to certify the management plan and provide reasons and recommendations to the Consent Holder. <p>Advice Note:</p> <ul style="list-style-type: none"> If a consent Authority does not certify a management plan under Condition 6.8b, the Consent Holder will need to resubmit the management plan under Condition 6.6.
6.9	<p>A copy of the latest version of the certified Management Plans must be kept on site at all times and all staff and contractors must be made aware of each Plan and their responsibilities under each Plan.</p>
6.10	<p>Subject to any other conditions of these consents, all activities must be undertaken in accordance with the latest version of the certified Management Plans.</p>
<p>7.0 Method of Operations</p>	
7.1	<ol style="list-style-type: none"> The mine boundaries must be clearly marked on the ground as per Schedule 1 before any earthworks take place, with the following setbacks applied: <ol style="list-style-type: none"> 20m from the consent boundary; 20m from Granite Creek 20m from Fagan Creek; 50m from the mean high water spring 20m from the proposed SNA PUN-049; 20m from all private property boundaries not within the consent area as shown on Schedule 1; 200m from dwellings other than where noise bunds are proposed.
7.2	<p>For Condition 7.1(a)(iv), the mine boundaries from the mean high water spring must be clearly marked at the start of each mining section:</p> <ul style="list-style-type: none"> Section 1: Canoe Creek to Granite Creek Section 2: South of Granite Creek to Cargill Road Section 3: South of Cargill Road to Southern Boundary
7.3	<p>The maximum area of site disturbance must not exceed 16.0 hectares.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> The disturbed area includes the stripped area ahead of mining, mining void and active rehabilitation areas (including borrow areas).
7.4	<ol style="list-style-type: none"> The Consent Holder must strip soil material ahead of mining operations and stockpile it for progressive and final mine closure rehabilitation purposes. Stockpiled soil must be protected from erosion caused by water and wind as far as practicable.
7.5	<p>The Consent Holder must not bury any topsoil or soil material suitable as a growing medium or remove it from the site.</p>

8.0 Hazardous Substances	
8.1	<p>a. Refuelling, lubrication and mechanical repairs of equipment and storage of hazardous substances and dangerous goods must be undertaken in such a manner that ensures spillages of hazardous substances or dangerous goods onto the land surface or into a waterbody do not occur, including that refuelling must not occur outside the mining area or within 20 metres of a water body.</p> <p>b. Any accidental discharge of greater than 20 litres of fuel, oil or hazardous substances must be reported immediately to the Consent Authorities along with details of the steps taken to remedy and/or mitigate the adverse effects of the discharge.</p>
8.2	All contractors and/or operators transporting or storing more than 20 litres of fuel, oil or hazardous substances must carry spill kits to contain any fuel, oil or hazardous substances discharges on-site.
8.3	A list of all hazardous substances and dangerous goods stored or used on site must be maintained on site at all times showing the location of the storage and use.
8.4	<p>The Consent Holder must undertake quarterly systematic testing of the heavy minerals concentrate from within the active mining area to confirm that the material remains below the acceptable level of radioactivity concentration limits as specified in Schedule 2 of the Radiation Safety Act 2016. Copies of the independent test results must be submitted to the Consent Authority within 10 working days of receipt of the results.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> <i>If material meets the criteria in Schedule 2 of the Radiation Safety Act 2016, the extraction, processing and transport of heavy minerals concentrate will require a Source Licence under this Act, and may possibly require a radiation safety plan as per section 18 of the Act.</i>
8.5	<p>In the absence of any extant and current New Zealand Code of Practice for handling naturally occurring radioactive materials, the Consent Holder must carry out all activities on site in accordance with the Radiation Protection and Radioactive Waste Management in Mining and Mineral Processing Code of Practice and Safety Guide published by the Australian Radiation Protection and Nuclear Safety Agency.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> <i>The Code of Practice within this consent condition requires that if radiation levels exceed 1Bq/g, the relevant authority must be notified, which differs from state to state. In the New Zealand context, the relevant body to notify is the Office of Radiation Safety.</i>
8.6	<p>a. The Consent Holder must maintain radiation monitoring devices in the locations specified in the Dust Management Plan. Data from the radiation monitoring devices must be collected and analysed once every three months. Copies of the test results must be submitted to the Consent Authorities with 10 working days of receipt of the results.</p> <p>b. If the radiation monitoring devices record radiation levels exceeding the equivalent of 1 mSv (millisievert) above background levels over 12 months (i.e., the sum of results from the past four device readings at each location minus background levels established prior to the activity commencing), then the Radiation Safety Act 2016 applies, and the Consent Holder must:</p> <ol style="list-style-type: none"> inform and consult the Office of Radiation Safety, New Zealand Ministry of Health; and carry out all activities on site in accordance with the Radiation Protection and Radioactive Waste Management in Mining and Mineral Processing Code of Practice and Safety Guide published by the Australian Radiation Protection and Nuclear Safety Agency (or any subsequent revision).
9.0 Rehabilitation	
9.1	<p>The Consent Holder must carry out progressive rehabilitation, to achieve the following requirements:</p> <ol style="list-style-type: none"> Reinstatement of productive pasture;

	<p>b. Reinstatement of existing creek and drainage patterns to reflect pre-mining catchment areas ensuring no loss of extent and values, with appropriate riparian planting, in accordance with Condition 28.2;</p> <p>c. Construction of wetland and riparian areas in accordance with Condition 16.7.</p>
9.2	<p>At the completion of mining (final mine closure), the mine area must be fully rehabilitated, in general accordance with a Rehabilitation Management Plan. The objectives of the Rehabilitation Management Plan are:</p> <p>a. To create a final landform with a similar contour and profile at final mine closure as that which existed prior to mining but with improved drainage across the site;</p> <p>b. To establish vegetation cover on all areas disturbed by mining activity;</p> <p>c. To protect freshwater values associated with natural waterways;</p> <p>d. To reinstate existing creek and drainage patterns to reflect pre-mining catchment areas ensuring no loss of extent and values; and</p> <p>e. To construct and establish a permanent wetland area that contributes to ecological enhancement, hydrological function and landscape integration at final mine closure.</p> <p>Advice Notes:</p> <ul style="list-style-type: none"> • <i>Final mine closure is the completion of all mining and progressive rehabilitation works.</i> • <i>All Management Plans are required to adhere to the requirements of Condition 6.0.</i>
9.3	<p>The Rehabilitation Management Plan must include the following:</p> <p>a. A programme of progressive rehabilitation of the pre-mining landform, adhering to maximum disturbed area limits.</p> <p>b. The original and final mine closure land contours.</p> <p>c. Contouring of all post-mining landforms.</p> <p>d. Establishment of pasture cover over all disturbed land.</p> <p>e. Construction methodology and planting details for the constructed wetland area to achieve the requirements in Condition 16.8.</p> <p>f. Construction methodologies and riparian planting details for the diversion of, and reestablishment of creeks, including to achieve the requirements in Condition 21.2 (the Site Specific Erosion and Sediment Control Plan) and Condition 28.2 (Design requirements).</p> <p>g. Removal of equipment.</p> <p>h. Monitoring and maintenance requirements.</p>
9.4	<p>If for any reason active mining ceases for more than 6 months, all disturbed areas must be rehabilitated as required by the conditions of these consents within 12 months from the date of the last mining activity.</p>
10.0 Complaints and Non-Compliance	
10.1	<p>The Consent Holder must maintain a complaints register for all aspects of operations in relation to these consents. The register must be available to the Consent Authorities at all times and must detail:</p> <p>a. The date, time and type of any complaint;</p> <p>b. The cause of the complaint; and</p> <p>c. Any action taken in response to the complaint (including any amendments to be pursued to the Management Plans required by Condition 6.0).</p>
10.2	<p>Upon receipt of any complaint, the Consent Holder must promptly investigate the complaint, take action to remedy or mitigate the cause of the complaint and within 24 hours inform the Consent Authorities of the details of the complaint and any action taken.</p>
10.3	<p>Complaints which may infer non-compliance with the conditions of these consents, must be referred to the Consent Authorities within 48 hours of their receipt.</p>
10.4	<p>a. The Consent Holder must immediately notify the Consent Authorities upon becoming aware of any non-compliance with the conditions of these consents</p> <p>b. Within 5 working days thereafter the Consent Holder must provide written notification to the Consent Authorities which explains the cause of the non-compliance, and if the cause was within the control of the Consent Holder, steps which were taken to remedy the non-</p>

	<p>compliance and steps which will be taken to prevent any further occurrence of non-compliance with the conditions of these consents.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>This consent condition does not replace the compliance and enforcement responsibilities of the Consent Authorities.</i>
Grey District Council Conditions	
11.0 Hours of Operation	
11.1	<p>a. Mining, overburden and topsoil stripping, bund development and any related activities must not operate during the hours of darkness. For the purpose of this condition, hours of darkness are between sunset to sunrise.</p> <p>b. Mining shall not occur between the hours of 0600 and 0700 within 500m of the dwellings located at Lot 2 DP2178, 23, 37, 41, 43 and 50 Warren Road, and 64, 67, 86 and 101 Cargill Road.</p> <p>c. Mining shall not be undertaken on Sunday.</p> <p>Advice Notes:</p> <ul style="list-style-type: none"> • <i>Sunrise and sunset times can be found at https://www.sunrise-and-sunset.com/en/sun/new-zealand/greymouth</i> • <i>In addition to Condition 12.1, further restrictions on noise are contained in Conditions 13.1 – 13.4 Noise.</i>
11.2	<p>Mining shifts must operate only during the hours of daylight. For the purpose of this condition, hours of daylight are between and sunset.</p>
12.0 Noise	
12.1	<p>The consent holder shall ensure that all operational mining activities on site do not exceed the following noise limits at or within the notional boundary of any dwelling:</p> <p>a. Daytime 0700 to 2200 55 dB L_{Aeq}(15 min)</p> <p>b. Night-time 2200 to 0700 45 dB L_{Aeq}(15 min) and 75 dB L_{AFmax}</p> <p>when measured and assessed in accordance with the latest New Zealand noise standards: NZS 6801:2008 “Acoustics – Measurement of environmental sound” and NZS 6802:2008 “Acoustics -Environmental Noise”.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>‘Notional boundary’ is defined as a line 20 metres from any side of a dwelling or the legal boundary where this is closer to the dwelling.</i>
12.2	<p>Construction activities must be conducted in accordance with NZS 6803: 1999 “Acoustics - Construction Noise” and must comply with the “typical duration” noise limits contained within Table 2 of that Standard.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>Construction activities include the formation of access roads, bunds, land contouring and planting. For the avoidance of doubt, overburden stripping and topsoil removal associated with mining operations must not be considered construction activities.</i>
12.3	<p>The Consent Holder must prepare a Noise Management Plan (NMP) to control day-to-day noise emissions from the site. The purpose is to ensure that disturbance to neighbours bordering the Application Site is avoided or minimised. This NMP must be submitted to the Consent Authority for certification 40 working days prior to commencement of the commencement of on-site works. As a minimum, the NMP must include:</p> <p>a. The person responsible for implementing the NMP</p> <p>b. Applicable noise conditions relating to noise</p> <p>c. Training of staff relating to how to minimise noise and vibration</p> <p>d. Mining risk analysis for noise generation</p> <p>e. Method for handling noise complaints</p> <p>f. Noise monitoring methodology, including frequency, duration, and location.</p>

	<p>Advice Note:</p> <ul style="list-style-type: none"> • <i>All Management Plans are required to adhere to the requirements of Condition 6.0.</i>
12.4	<p>a. The Consent Holder must engage a suitability qualified and experienced acoustic consultant to undertake compliance noise monitoring within 30 days of mining or processing operations occurring and thereafter at 3 monthly intervals for the first 12 months of the mining operation. Thereafter, compliance noise monitoring must be undertaken on an annual basis.</p> <p>b. All noise monitoring must be submitted to the Consent Authority within two weeks of completion of each monitoring event.</p> <p>c. If compliance with Condition 12.1 is not achieved, the Consent Holder must:</p> <ol style="list-style-type: none"> investigate the reasons for non-compliance and within 20 working days implement additional mitigation measures to achieve compliance with those noise limits. submit a report to the Consent Authority within 30 working days of the relevant monitoring event detailing the additional mitigation measures that were implemented. <p>d. If additional mitigation measures are implemented, the Consent Holder must engage a suitability qualified and experienced acoustic consultant to undertake further compliance noise monitoring within 10 working days of any mitigation measure being implemented to determine the effectiveness of that mitigation.</p> <p>e. If compliance with Condition 12.1 is still not achieved the Consent Holder must repeat the requirements of c. and d. until compliance is achieved.</p>
12.5	<p>Mining operations must utilise the best practicable option to minimise noise at all times. This includes:</p> <ol style="list-style-type: none"> Replacement of worn machinery parts, maintenance of mufflers, lubrication of moving machinery to avoid squeaks and squeals, and appropriate operation of all equipment. Vehicles or equipment must not be fitted with tonal reversing alarms. Where reversing alarms are required, broadband reversing alarms must be used.
13.0 Avian Management	
13.1	<p>a. Prior to and during each breeding season, the Consent Holder shall undertake regular surveys of all areas scheduled for mining to identify any bird breeding or nesting activity. Where surveys indicate that nesting is likely to occur, the Consent Holder shall implement appropriate deterrence measures, including walkovers, visual cues, audio bird scarers, and strategic placement of machinery, to discourage birds from establishing nests.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>Conditions relating to the Avian Management Plan are Conditions 13.7 – 13.9.</i>
13.2	<p>Staff, contractors and visitors associated with the mining activity must not be permitted to bring dogs to the site at any time, except for conservation purposes.</p>
13.3	<ol style="list-style-type: none"> The Consent Holder must deploy wildlife cameras at suitable locations to detect target wildlife (particularly Kororā and Tāiko) including low spots and creek mouths along the coastal edge of the mine disturbance area and other locations likely to detect activity as determined by a suitably qualified ecologist and set to record for at least 10 nights every month. The cameras must be equipped with passive infrared receptors (or other mechanisms to enable night vision capability and motion detection) and be installed by a suitably qualified ecologist. Imagery must be reviewed for wildlife interactions at least weekly by a suitably qualified ecologist, retained for a minimum of 6 months, and be made available to the Consent Authority or the Department of Conservation on request.
13.4	<p>a. Any interactions with wildlife recorded as a result of the monitoring requirements in the Avian Management Plan including the wildlife cameras required by Condition 13.3, must be reported to the Consent Authority and the Department of Conservation on a weekly</p>

	<p>basis from 1 November to 31 January each year, and on a monthly basis from 1 February to 31 October.</p> <p>b. Footage must be made available to the Department of Conservation and the consenting authority as set out in Condition 13.3.</p> <p>c. Any grounded taiko discovered must be reported to the Department of Conservation via their 0800 DOC HOT line as soon as possible.</p> <p>d. In the event that a grounded seabird is discovered, a lighting audit will be undertaken to ensure lighting at the site complies with the requirements set out in the Avian Management Plan and the latest version of the Australian Government National Light Pollution Guidelines for Wildlife.</p>
13.5	<p>a. The Consent Holder must engage a suitably qualified expert to carry out annual penguin surveys of Pakiroa beach and the mine area within 500m of the mining disturbance area to detect the presence of Kororā. If available, the Consent Holder must use a certified conservation dog. If a certified conservation dog is unavailable or unable to complete the survey, human surveys and increased camera monitoring will be undertaken in accordance with the advice of a suitably qualified ecologist.</p> <p>b. The first survey must be conducted within the first 12 months of the commencement date of the resource consent, and at least two annual surveys must be completed before mining commences.</p> <p>c. If penguins or burrows are detected the GPS location must be recorded and the Consent Holder must undertake the following management actions:</p> <ol style="list-style-type: none"> i. If penguins are detected using the mining area to access other habitats, any existing access ways must be maintained and/or works affecting that accessway must be completed in the period April – June (outside the breeding and moult period). ii. Any potential penguin burrows identified must be investigated, including use of a burrowscope, to determine whether Kororā are using them. iii. Where any penguin burrows are compromised by mining (i.e. there are direct effects), replacement artificial burrows or nest boxes must be installed at a rate of 2:1. Any additional nest boxes provided must be located within the vegetated coastal foreshore habitat associated with any identified accessways. iv. If penguins are found within the application site, a specific Penguin Management Plan must be developed by a suitably qualified and experienced ecologist on behalf of the applicant in consultation with the West Coast Penguin Trust. The West Coast Penguin Trust must be reimbursed for reasonable time and expenses associated with consultation on the Penguin Management Plan. v. Any deceased penguins found on or near the mine site must be provided to the Department of Conservation for necropsy.
13.6	<p>a. The Consent Holder must erect and maintain a penguin fence for each section of mining identified in the Avian Management Plan to deter Kororā from entering hazardous areas.</p> <p>b. The penguin fence must be comprised of geosynthetic mesh to a height of at least 900mm above ground and buried at least 300mm below the ground and with posts no greater than 4m apart.</p> <p>c. The fence installation must be certified by a suitably qualified ecologist as preventing the ingress of Kororā to the active mine disturbance area.</p> <p>d. The certification must be supplied to the Consent Authority prior to mining commencing.</p> <p>e. Upon completion of all mining activities and associated site rehabilitation, all penguin fencing must be removed.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>The requirement to erect a penguin fence only applies if Kororā are detected within 500m proximity of the active mining disturbance area during pre-mining surveys. If no Kororā are detected within 500m of the active mine disturbance area a penguin fence is deemed unnecessary.</i>

13.7	<p>The Consent Holder must conduct activities on site in general accordance with an Avian Management Plan (AMP) prepared by a suitably qualified ecologist or ornithologist. The objectives of the AMP are:</p> <ol style="list-style-type: none"> To ensure adverse effects on the threatened and at risk birds present in the vicinity of the site and any other threatened and at risk species detected by subsequent monitoring are avoided. To ensure safe ongoing use of the site and its environs by the birds which currently occur in the area. <p>Advice Note:</p> <ul style="list-style-type: none"> All Management Plans are required to adhere to the requirements of Condition 6.0. Threatened or at-risk bird species refers to the Conservation Status according to the New Zealand Threat Classification System.
13.8	<p>The AMP must detail:</p> <ol style="list-style-type: none"> A description of the site A description of the threatened and at risk indigenous birds likely to be present in these habitats and which species require specific mitigation measures A description of the measures that are required to be implemented to avoid effects on threatened and at risk indigenous birds . A procedure for managing and responding to Westland Petrel or other wildlife being found on the mine site; Details of the penguin fence for each Section of mining described in condition 13.6. Lighting management at the site to comply with the guidelines in Condition 17.2. A description of the monitoring requirements to assess the effectiveness of the AMP.
13.9	<p>The AMP must be reviewed annually by the Consent Holder. Any proposed amendments to the AMP must be submitted to Council for certification and must:</p> <ol style="list-style-type: none"> Achieve the AMP's objectives including avoiding effects on any threatened or at-risk indigenous bird species; Comply with the conditions of this resource consent; Have been reviewed by an appropriately qualified and experienced ecologist or ornithologist; Have been provided in advance to Te Rūnanga o Ngāti Waewae and the Buller/Kawatiri office of the Department of Conservation for comment (and feedback received collated and submitted with the amendments to be provided to Council); and Follow the certification process set out in Condition 6.1. <p>Advice Note:</p> <ul style="list-style-type: none"> Any disturbance or relocation of avifauna may require a permit from the Department of Conservation under the Wildlife Act (1953).
13.10	<ol style="list-style-type: none"> The Consent Holder must engage a suitably qualified expert(s) to undertake all monitoring of avian species from the commencement of consent until at least one year following the cessation of mining activities on this site. The monitoring must be carried out in accordance with the monitoring requirements in the AMP.
13.11	<p>An annual bird management report must be provided to the Consent Authority, Te Rūnanga o Ngāti Waewae, the Buller/Kawatiri office of the Department of Conservation in Westport, the West Coast Penguin Trust and Waka Kotahi NZ Transport Agency Environment and Sustainability Team (via: environment@nzta.govt.nz), no later than 30 June each year. The report must include the following matters:</p> <ol style="list-style-type: none"> The timing and duration of any mining within 100m of the proposed SNA Site PUN-049; Results of seasonal bird surveys at the site; Timing of nest detection surveys and observations relating to nesting or other behaviours observed within the area to be mined;

	<ul style="list-style-type: none"> d. Efforts to deter any attempts at nesting within the area to be mined and the outcome of those efforts; e. Species attempting to nest within the area to be mined (including threatened and at risk species); f. Date of first nesting attempts (if any) for threatened and at risk species within the area to be mined; g. Number and location of nesting attempts by threatened and at risk species within the area to be mined; h. Outcome of individual nesting attempts by threatened and at risk species within the area to be mined; i. Results of annual Kororā surveys on Pakiroa Beach, the implications for mine operations and any management actions undertaken; j. Number, dates and location of any mining operation vehicle strikes or near misses involving the Westland Petrel or Kororā; k. Autopsy outcomes for any dead Westland Petrel or Kororā collected; l. The findings of any lighting audits undertaken during the year and steps taken to resolve any issues identified; m. A summary of any revisions made to the AMP and the reasons for the changes; and n. The date and duration of any operational shut-downs.
14.0 Lizard Management	
14.1	The Consent Holder must conduct activities on site in general accordance with a Lizard Management Plan (LMP) prepared by a suitably qualified ecologist. The objective of the LMP is to minimise adverse effects on indigenous lizards present within the project area during construction and operation.
14.2	<p>The LMP must include (but is not limited to):</p> <ul style="list-style-type: none"> a. Survey of lizard species and habitats within the site; b. Methods for lizard capture, salvage, and relocation; c. Methods for construction of artificial refuges in advance of lizard salvage at the lizard release site; d. Identification of release sites and habitat enhancement measures; e. Timing of works to minimise impacts on lizards; f. Monitoring and reporting requirements; g. Contingency procedures if lizards are discovered during works.
14.3	Site works must not commence until the Consent Authority has certified the LMP in accordance with Condition 6.0.
15.0 Native Freshwater Fish Management	
15.1	The Consent Holder must conduct activities on site in general accordance with a Native Freshwater Fish Capture and Relocation Plan (NFFCRP) prepared by a suitably qualified freshwater ecologist. The objective of the NFFCRP is to avoid, or otherwise minimise adverse effects on native fish present within the project area.
15.2	<p>This NFFCRP must detail how native fish will be salvaged and relocated prior to creekworks commencing and must include but not be limited to:</p> <ul style="list-style-type: none"> a. Methodologies to capture fish within the impacted creeks and wetland habitats, or justification there is no habitat for native fish present at the time of earthworks; b. Fishing effort; c. Details of the relocation site(s) including a description and assessment of the quantum and availability of suitable aquatic habitat at the relocation site; d. Storage and transport measures including prevention of predation and death during capture; e. Euthanasia methods for diseased individuals or pest species f. Reporting.
15.3	Creekworks must not commence until the Consent Authority has certified the NFFCRP.
15.4	The NFFCRP must be reviewed annually by a suitably qualified freshwater ecologist, and any required changes made in accordance with Condition 6.6.

16.0 Landscape Mitigation and Rehabilitation	
16.1	a. As soon as practicable, and prior to the commencement of mining in each Section, the Consent Holder must construct bunds and complete planting in accordance with the “Landscape Mitigation Package” prepared by Glasson Huxtable Landscape Architects dated May 2026, REV H (Schedule 2).
16.2	<p>New bunds are to be constructed 3.0 metres high and 24 metres wide with an inward facing grassed slope and dense planting on the crest and outward facing slopes. While primarily required for noise mitigation, the bunds will also provide visual screening. Bunds are to be located:</p> <ol style="list-style-type: none"> On the western boundary of Lot 2 DP2178. Near the bottom of Warren Road (with a separation at Granite Creek). On the northern side of Cargill Road at the eastern boundary. On the southern side of Cargill Road, alongside the western boundary of 114 Cargill Road. <p>The above areas are illustrated within the “Landscape Mitigation Package” prepared by Glasson Huxtable Landscape Architects dated May 2026, REV H (Schedule 2).</p>
16.4	<p>Vegetation to be retained includes:</p> <ol style="list-style-type: none"> The stand of Old Man Pines and the large cluster of vegetation near the consented WCP. Clusters of vegetation along the eastern application area boundary north of Cargill Road. The patch of vegetation adjacent to 101 Cargill Road. The stand of Old Man Pine and other riparian vegetation adjacent to Granite Creek. <p>The above areas are illustrated within the “Landscape Mitigation Package” prepared by Glasson Huxtable Landscape Architects dated May 2026, REV H (Schedule 5).</p>
16.5	<p>Plant species selection must achieve the following:</p> <ol style="list-style-type: none"> Be a species listed within the “Landscape Mitigation Package” prepared by Glasson Huxtable Landscape Architects dated May 2026, REV H (Schedule 5) and be suited to the local conditions (particularly in relation to water depth in the wetland) At least one plant per square metre at planting; and 80% vegetation cover for final rehabilitation, measured alongside weed cover, bare ground and floristic similarity.
16.6	The Consent Holder must source plants required for mitigation and rehabilitation planting from within the Punakaiki Ecological District or the North Westland Ecological Region in order of preference. Where this is unable to be achieved, the Consent Holder must notify the Consent Authority and work with the Consent Authority and a suitably qualified Landscape Architect and Ecologist to determine an appropriate alternative plant source.
16.7	The wetland construction, Granite Creek riparian planting, and creek riparian planting must be undertaken in accordance with the Landscape Mitigation Package” prepared by Glasson Huxtable Landscape Architects dated May 2026, REV H (Schedule 2).
16.8	<p>The Rehabilitation Management Plan must include details of a final wetland design:</p> <ol style="list-style-type: none"> A final wetland design that, when the planting required in Condition 16.7 achieves an area of at least 50 ha with the following habitats: <ol style="list-style-type: none"> At least 5.2ha of shallow marsh with an average depth of 0.4m At least 2.8ha of mid-depth water with an average depth of 1m At least 5.3ha of deep open water with an average depth of 2m At least 15.3ha of flaxland and dry edge vegetation At least 5.3ha of Carex Rushlands At least 15.6ha of Raupo At least 4.1ha of raised islands Site preparation requirements for the wetland and riparian planting; Planting methodology for planting and establishment of the wetland and riparian areas; Monitoring and maintenance requirements to ensure the survival and ecological functioning of the constructed wetland, including pest and weed control.

16.9	The wetland construction must be undertaken in a manner which observes the legal roads at Parcel ID 3702898 and 3700202 by either avoiding wetland construction in those areas or alternatively be formed in a manner which allows road construction to take place in the future while the wetland still achieves the final wetland design in 16.8.
16.10	Each plant shall be of nursery stock and be of good form that is true to species. Plants shall be healthy, vigorous and free of disease, injury, parasites or insects and not root bound.
16.11	All new planting areas required by this consent including wetlands and riparian areas shall be fenced off with stock proof post and wire fencing immediately following planting.
16.12	All planting must be maintained for the duration of the consent. Maintenance includes weeding, spraying, staking, watering, fertilising, trimming, pest removal and plant replacement. The aim is to have plants which are vigorous and thriving, thereby providing effective screening and rehabilitation.
16.13	Any plants that are dead, diseased, fail to thrive or are damaged must be replaced with the same or similar plant species within the following planting season.
16.14	The existing mature flax and raupo located within the site will be utilised where possible for direct vegetation transfer associated with the constructed wetland.
17.0 Lighting	
17.1	Lighting must not exceed 2.0 lux spill (horizontal and vertical) of light onto any adjoining property, measured at any point more than 2m inside the boundary of the adjoining property or the closest window on the adjoining property whichever is the closest.
17.2	Lighting must be designed in a manner which adheres to the Australian Government's National Light Pollution Guidelines for Wildlife May 2023 (or subsequent revision), including but not limited to: <ul style="list-style-type: none"> a. All fixed lighting must be directed downward, shielded to avoid light spill outside of permitted limits, operate primarily in the yellow orange spectrum, and be filtered to reduce blue and violet wavelengths; b. Lights must only illuminate the object or area intended; c. Fixed lights must be mounted as close to the ground as practicable while still achieving site lighting requirements; and d. External lighting must use the lowest intensity lighting possible, while ensuring compliance with workplace health and safety requirements.
18.0 Accidental Discovery Protocol	
18.1	Immediately following the discovery of material suspected to be a taonga, kōiwi or archaeological site the following steps shall be taken: <ul style="list-style-type: none"> a. All works on the site will cease immediately at that place and within 20m around the site. b. Immediate steps will be taken to secure the site to ensure the archaeological material is not further disturbed. c. The contractor/works supervisor/owner will notify the Rūnanga, Council and the Area Archaeologist of Heritage New Zealand. In the case of kōiwi (human remains), the New Zealand Police must be notified. d. The Rūnanga and Heritage New Zealand will jointly appoint/advise a qualified archaeologist who will confirm the nature of the accidentally discovered material. e. The contractor/works supervisor/owner will also consult the Rūnanga on any matters of tikanga (protocol) that are required in relation to the discovery and prior to the commencement of any investigation. f. If kōiwi (human remains) are uncovered, in addition to the steps above, the area must be treated with utmost discretion and respect, and the kōiwi dealt with according to both law and tikanga, as guided by the Rūnanga. Remains are not to be moved until such time as Rūnanga, NZ Police and Heritage New Zealand have responded. g. Works in the site shall not recommence until authorised by the Rūnanga, Heritage New Zealand (and the NZ Police in the case of kōiwi). h. All parties will work towards work recommencing in the shortest possible timeframe while ensuring that any archaeological sites discovered are protected until as much information as practicable is gained and a decision regarding their appropriate

	<p>management is made, including obtaining an archaeological authority under the Heritage New Zealand Pouhere Taonga Act 2014 if necessary. Appropriate management may include recording or removal of archaeological material.</p> <p>i. Although bound to uphold the requirements of the Protected Objects Act 1975, the contractor/works supervisor/owner recognises the relationship between Ngāi Tahu whānui, including its Rūnanga, and any taonga (Māori artefacts) that may be discovered. Where Rūnanga so request, any information recorded as a result of the find such as a description of location and content, is to be provided for their records.</p>
General Conditions to Apply to all West Coast Regional Council Consents	
20.0 Method of Mining	
20.1	The consent holder must only carry out mining activities within the mining area shown on the attached map titled “Tāiko Fast-track Application” prepared by Tai Poutini Professional Services Ltd dated [insert date here] attached as Schedule 1.
20.2	The maximum combined surface area of un-rehabilitated disturbed land in the application area must not exceed 16.0 hectares at any one time, which includes a maximum exposed surface area of 2.0ha from the borrow cut location.
20.3	The mining and associated activities under this consent must not cause or induce erosion or slope instability outside the mining area (during operations), or the application area as part of final rehabilitation.
21.0 Erosion and Sediment Control Plan	
21.1	<p>The Consent Holder must operate in general accordance with the Erosion and Sediment Control Plan labelled ‘Barrytown Mineral Sand Operation Erosion and Sediment Control Plan and Water Management’ (ESCP) prepared by Ridley Dunphy Environmental Ltd, dated [insert date here].</p> <p>The objective of the ESCP is to establish procedures and design criteria in relation to earthwork and creekwork activities to be implemented during the Project construction to minimise sedimentation of waterbodies adjacent to the mining area, and assist with compliance with the water quality parameters in Condition 23.0. The ESCP has the following outcomes:</p> <ol style="list-style-type: none"> Minimise to the extent practicable the area and volume of earthworks required for construction of the Project; Maximise the effectiveness of erosion and sediment control measures and processes associated with earthworks and creekworks by minimising sediment generation and consequential sediment-laden runoff and discharges; Through the implementation of the ESCP and ensuring that discharges from earthworks and creekworks are minimised, protect receiving environments to the greatest extent practicable; Monitor all erosion and sediment control measure implementation and any associated discharges to allow for ongoing continuous improvement of erosion and sediment control implementation and effectiveness; and Undertake progressive rehabilitation and stabilisation as works proceed to ensure open exposed areas are minimised, to a maximum of 16ha at any one time and consequently achieve a reduction in the risk of sediment generation and discharges.
21.2	<p>A Site Specific Erosion and Sediment Control Plan (SSESCP) must be prepared and reviewed annually (or updated as required) and submitted to the Consent Authority with the Annual Work Programme, reflecting the water management measures proposed for construction and mining for the following 12 months, and adhering to the objective and outcomes of the Erosion and Sediment Control Plan in Condition 21.1 above. The SSESCP must include:</p> <ol style="list-style-type: none"> Location of the work including mining and rehabilitation borrow areas; Contour information; Erosion and Sediment Controls (ESCs); Details of all non structural erosion and sediment control measures and methodologies (including sequencing of works) to be implemented to ensure the ESCP outcomes are achieved; Internal catchment boundaries;

	<ul style="list-style-type: none"> f. Details of earthworks and ESC construction methods; g. Contingency measures; h. ESC design details; i. Design details and criteria for all permanent creek diversions; j. A programme for managing non-stabilised areas; k. The identification staff who will manage ESCs; l. The identification of staff who monitor compliance with consent conditions; m. A chain of responsibility for managing erosion and sediment control issues; n. A programme of water monitoring and sampling for turbidity which includes weekly and rainfall-event turbidity monitoring (≥ 25 mm in 24 hours) using field meters or grab samples upstream and downstream of mining activities in the creeks, and daily and rainfall-event turbidity monitoring downstream of creek diversions and any borrow cut locations; and o. Methods and procedures for decommissioning ESCs (if applicable).
21.3	The sediment and erosion controls at the site of the works must be inspected on a regular basis and within 24 hours of each rainstorm event that is likely to impair the function or performance of the erosion and sediment controls. A record must be maintained of the date, time and any maintenance undertaken in association with this condition which must be forwarded to the Consent Authority on request.
22.0 Water Management Plan	
22.1	<p>The Consent Holder must operate the mine in accordance with a Water Management Plan (WMP) which includes a Monitoring and Effects Management Plan (MEMP) prepared by a suitably qualified hydrologist. The objectives of the WMP are to avoid adverse hydrological effects by:</p> <ul style="list-style-type: none"> a. The flows in Granite Creek or Canoe Creek not being reduced by more than 10% of the MALF in long-term operation (i.e., over more than 7 days). b. The quality of water discharged to receiving waters will not cause adverse impacts on creek ecology or visual clarity. c. Potential adverse water quality (including ecological) impacts associated with discharge of naturally present toxic metals and phosphorus in downgradient surface waters are avoided where practicable, or minimised. d. The pre-mining surface drainage patterns are restored such that the catchment areas for Clark Creek, Granite Creek and other smaller creeks are not changed to any significant extent, albeit the constructed wetland is established across these catchments. <p>The objectives of the MEMP are:</p> <ul style="list-style-type: none"> i. The rate of take of water from Canoe Creek gallery is not greater than 10% of Canoe Creek's MALF, and mining will be set back from Canoe Creek and Granite Creek ii. The groundwater level in the mining void will not be manipulated to materially lower or raise pond water levels beyond 20% of baseline dredge pond water depth. iii. Pumping of groundwater will be minimised by avoiding dewatering and associated water table lowering while excavating saturated material within the void down to the economic mineral grade limit or maximum reach depth of the dredge, not exceeding 10m. iv. Water pumped from the void will be conveyed to the WCP. Water will be ordinarily pumped back to the dredge pond tailings zone to achieve the hydrological effect goals of the WMP. v. The quality of any groundwater that could enter surface water or coastal water or Wasabi Springs will be monitored to confirm that it meets standards which are consistent with hydrological effects goal of the WMP (condition 22.1c). vi. Detailed design information for the water management system shall be issued to WCRC for review and comment at least 16 weeks prior to the start of mining operations.

	<p>vii. The rate of take of water will be monitored in accordance with the Resource Management (Measurement and Reporting of Water Takes) Regulations and the pumping rate will be restricted to 63 L/s instantaneous rate, and 5,400 m³/d or 62.5 L/s on a daily basis.</p> <p>viii. The rehabilitated mine area will provide for the establishment of a wetland complex in excess of 50ha in the east of the former mining area. Five creeks will be restored with realignment and riparian plantings.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • All Management Plans are required to adhere to the requirements of Condition 6.0. • The maximum rate of take is anticipated to be required for infrequent periods of up to 7 days. It is also anticipated that the long-term abstraction rate would be less at 9.5 L/s. • With respect to 21.1vii usage will be measured at 15-minute intervals and data reported electronically to the respective consent authority daily. Data Storage: Systems must be capable of storing records. If using telemetry, dataloggers should store at least one month of data; standalone loggers require 12 months of storage. Verification: Meters must be verified (calibrated) by a qualified person to ensure accuracy. If no water is taken, reports must indicate zero usage.
22.2	<p>The WMP must include a description of the water management methods for the site, including:</p> <ol style="list-style-type: none"> A description of the baseline monitoring and the receiving environment; The proposed mine disturbance area; A description of all site activities with the potential to cause hydrological impacts; The water management actions that will be implemented to avoid hydrological effects, including: <ol style="list-style-type: none"> The water treatment train, including settling infrastructure; The return of limed water to the mining void; Operational water level and water quality monitoring requirements for the duration of the activity; Groundwater level thresholds and actions to be taken should these thresholds be exceeded; Surface water body flow threshold for Canoe Creek and actions to be taken should that threshold be exceeded; Actions to be taken if water quality thresholds are exceeded; Final Rehabilitation requirements to avoid adverse hydrological impacts on waterbodies post-mining; Audit checklists; An organisational chart showing staff and contractor positions and responsibilities for plan implementation; and Relevant training and induction procedures and schedules.
22.3	<p>The WMP must be updated on an annual basis and must be submitted to the Consent Authority for certification in accordance with condition 6.0. The annual update is required to:</p> <ol style="list-style-type: none"> reflect the proposed mining operations for the following 12 months; and provide any additional or amended monitoring and mitigation requirements in order to reduce the potential for adverse hydrological and/or water quality effects.
Conditions to Apply to WCRC Discharge Permits	
23.0 Method of Discharge during mining activity	
23.1	<p>During mining, treated mine water is only permitted to be discharged directly to the mining void, and from the Mine Water Facility, if:</p> <ol style="list-style-type: none"> metal and metalloid water quality parameters in Table A below are complied with at the sites shown in Schedule 3; and the non-metal water quality parameters in Table B below are complied with at the sites shown in Schedule 3 (as required by Condition 23.2) and the locations defined in Table B.

Table A - metals and metalloids thresholds, and dependencies

Parameter	Threshold mg/L	Dependency
Aluminium	0.62 ^B	Hardness, pH, Dissolved Organic Carbon
Arsenic	0.013	As arsenic (V)
Boron	0.94	NA
Cadmium	0.0002 ^D	Hardness
Chromium	0.0033 ^D	Hardness, as chromium (III)
Copper	0.0039 ^E	Hardness, pH, Dissolved Organic Carbon
Iron	1.0	As total fraction
Lead	0.0034 ^D	Hardness
Manganese	1.9	NA
Nickel	0.011 ^D	Hardness
Zinc	0.008 ^D	Hardness

^A dissolved fraction, unless stated

^B at hardness = 25 g/m³, pH = 7.0, Dissolved Organic Carbon = 1.0 g/m³

^C 95%-ile trigger value

^D at hardness = 30 g/m³

^E at hardness = 25 g/m³, pH = 7.0, Dissolved Organic Carbon = 2.0 g/m³

Table B - Non-metals

Parameter	Threshold	Notes/Monitoring Location
Turbidity (NTU)	30% increase between upstream and downstream creek locations	Applies to discharges to Northern Creek, Central Creek, Granite Creek downstream, Unnamed Creek north of Cargill Road, Wasabi Creek and Southern Creek, shown in Schedule 3.
Visual clarity	Conspicuous visual change	In the receiving water bodies of Northern Creek, Central Creek, Granite Creek downstream, Unnamed Creek north of Cargill Road, Wasabi Creek and Southern Creek as shown in in Schedule 3.
	Relevant NPS-FM (2020) attribute state for visual clarity	No change in the attribute states of the receiving surface water bodies, as an annual median and a 95%-ile, versus the baseline states. See advice note b below. Monitoring locations are Northern Creek, Central Creek, Granite Creek downstream, Unnamed Creek north of Cargill Road, Wasabi Creek and Southern Creek shown in Schedule 3.
Dissolved Reactive Phosphorus (DRP)	Relevant NPS-FM (2020) attribute state	No change in the attribute states of the receiving surface water bodies, as an annual median and a 95%-ile, versus the baseline states. See advice note b below. Monitoring locations are Northern Creek, Central Creek, Granite Creek downstream, Unnamed Creek north of Cargill Road, Wasabi Creek and Southern Creek shown in Schedule 3.

Advice Notes:

- *Water quality monitoring conditions to establish the ability to discharge under this condition are contained in Condition 24.0 below.*
- *The attribute state for visual clarity and DRP must be either*

	<p>a) defined via at least 12 months of baseline monitoring in Northern Creek, Central Creek, Granite Creek downstream, Unnamed Creek north of Cargill Road, Wasabi Creek and Southern Creek; or</p> <p>b) assumed to be of pristine water quality (A Band).</p> <ul style="list-style-type: none"> In the case of a), the monitoring data and attribute state assessment must be submitted to WCRC for approval at least 4 weeks prior to the start of mining operations. For the purposes of Table B Turbidity baseline values means the 90th percentile value calculated from baseline monitoring. 																																							
23.2	<p>The Consent Holder must ensure that discharges to surface and groundwater do not contain any contaminants other than suspended sediments, naturally occurring elements and metals, and water treatment chemicals in accordance with Conditions below:</p> <p>a. The use of any water treatment chemical(s) is/are permitted provided they are used in accordance with its Material Safety Data Sheet(s) (MSDS).</p> <p>b. The Consent Holder must notify the Consent Authority in writing and provide the respective MSDS of any water treatment chemical(s) used in accordance with the above condition before it is used.</p>																																							
23.3	<p>The Consent Holder must take all practicable measures to prevent uncontaminated stormwater entering the mine workings and disturbed areas to reduce the volume of water passing through the mining pond/settling pond system, and to improve the efficiency of the water reticulating system.</p>																																							
24.0 Water Monitoring																																								
24.1	<p>The Consent Holder must carry out water monitoring at the locations shown in the ESCP and Water Management Plan, and as listed in the table below:</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Parameter(s)</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Canoe Creek @ State Highway 6</td> <td>Flow</td> <td>Hourly</td> </tr> <tr> <td>Canoe Creek Gallery</td> <td>Flow Level</td> <td>Hourly 6 Hourly</td> </tr> <tr> <td>Discharges to mining void @ Mine Water Facility near Wet Concentrator Plant</td> <td>Flow</td> <td>Continuous, Automated</td> </tr> <tr> <td>Northern Creek</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Central Creek (WCP)</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Clarke Creek upstream</td> <td>Monitoring Suite A* Visual clarity Flow</td> <td>Quarterly (metals) Monthly (Others) Hourly</td> </tr> <tr> <td>Little Granite Creek upstream</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Granite Creek upstream</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Granite Creek downstream of mining</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others) Hourly</td> </tr> <tr> <td>Unnamed creek north of Cargill Road</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Wasabi Creek</td> <td>Monitoring Suite A* Visual clarity</td> <td>Quarterly (metals) Monthly (Others)</td> </tr> <tr> <td>Wasabi Springs</td> <td>Monitoring Suite A* Visual clarity Flow</td> <td>Quarterly (metals) Monthly (Others) Hourly</td> </tr> </tbody> </table>	Location	Parameter(s)	Frequency	Canoe Creek @ State Highway 6	Flow	Hourly	Canoe Creek Gallery	Flow Level	Hourly 6 Hourly	Discharges to mining void @ Mine Water Facility near Wet Concentrator Plant	Flow	Continuous, Automated	Northern Creek	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Central Creek (WCP)	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Clarke Creek upstream	Monitoring Suite A* Visual clarity Flow	Quarterly (metals) Monthly (Others) Hourly	Little Granite Creek upstream	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Granite Creek upstream	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Granite Creek downstream of mining	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others) Hourly	Unnamed creek north of Cargill Road	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Wasabi Creek	Monitoring Suite A* Visual clarity	Quarterly (metals) Monthly (Others)	Wasabi Springs	Monitoring Suite A* Visual clarity Flow	Quarterly (metals) Monthly (Others) Hourly
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24.2	<p>Notwithstanding Condition 24.1, all discharges associated with the mining operations authorised under these consents must not cause any of the following effects within any receiving waterbody measured at the downstream water quality monitoring sites in Condition 24.1:</p> <ol style="list-style-type: none"> Any conspicuous oil or grease films, scums or foams, or floatable or suspended materials, Any conspicuous change in the colour or visual clarity, Any emission of an objectionable odour, Any significant adverse effects on aquatic life, or The rendering of fresh water unsuitable for consumption by farm animals. 																																							
24.3	<p>Sampling required under the conditions of this consent must be undertaken and analysed by suitably qualified personnel and the results supplied to the Consent Authority annually as part of the annual works programme.</p>																																							
24.4	<p>An Annual Hydrological and Water Quality Report must be submitted to the Consent Authority with the Annual Work Programme in accordance with Condition 5.2 for review and evaluation of compliance. The report must be prepared by a suitably qualified and experienced person and include the following information:</p> <ol style="list-style-type: none"> A summary of the monitoring undertaken over the preceding 12 months. The summary must: <ol style="list-style-type: none"> Reference the specific consent conditions under which the monitoring has been undertaken to show how the conditions have been complied with; Provide tables of the water quality data collected in accordance with Condition 24.1. Discussion and evaluation of the monitoring data in relation to the relevant conditions including a summary of compliance with conditions; A summary of the actions that have been undertaken in response to any exceedance(s) of water quality limits; 																																							

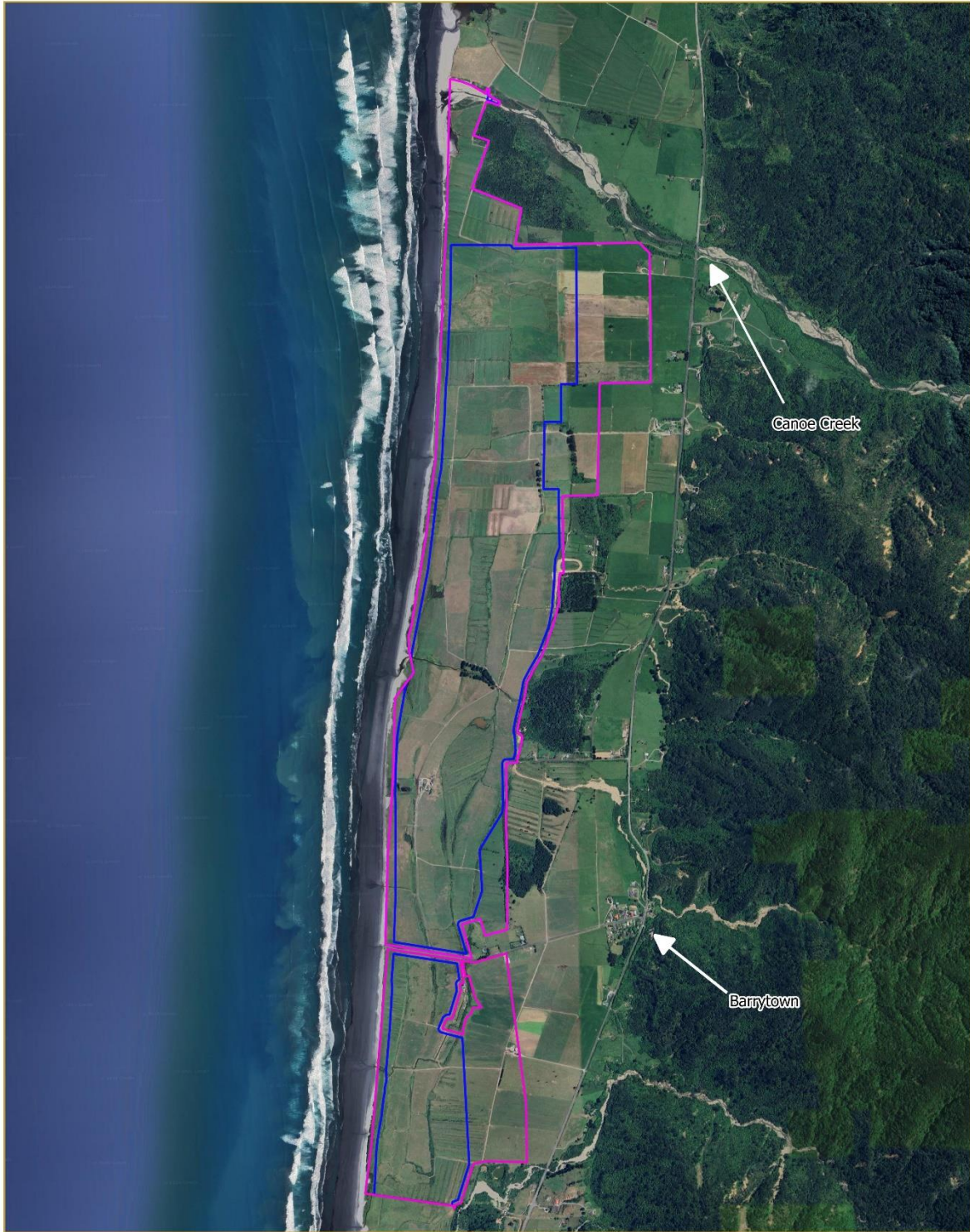
	d. Records of the visual inspections that have been undertaken in accordance with Condition 24.1, 24.2 and Condition 24.3.
24.5	<p>a. The Consent Holder must engage a suitably qualified aquatic ecologist to carry out annual instream and riparian habitat, macroinvertebrate and fish surveys in Northern Creek, Central Creek, Clarke Creek, Granite Creek, Wasabi Creek and Southern Creek.</p> <p>b. The proposed survey methodology, including the locations where instream and riparian habitat, macroinvertebrate and fish sampling will be undertaken, the timing of the sampling, the methods that will be used to undertake the sampling, the name of the authorised person who will undertake the monitoring and reporting methods must be submitted to the Consent Authority 20 working days prior to the survey being undertaken, for the Consent Authority to certify the survey methodology.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • <i>If the Consent Authority refuses to certify the survey methodology, it is expected to give reasons in writing.</i> • <i>If the Consent Authority refuses certification the Consent Holder must resubmit the survey methodology for certification addressing any concerns of the Consent Authority.</i> • <i>Surveys must not be undertaken until certification is achieved.</i> • <i>The results of the survey must be submitted to the Consent Authority within 10 working days of the results being received.</i> • <i>The surveys required by this condition are to collect baseline information about aquatic biota present within the waterbodies around the consent area and monitor long term trends in aquatic ecological health.</i>
24.6	<p>a. Macroinvertebrate monitoring required by Condition 24.5 must be conducted using Protocol P2 and C1 from the Ministry for the Environment Macroinvertebrate Guidelines and the samples must be analysed by an aquatic ecologist experienced in macroinvertebrate sampling and identification.</p> <p>b. Monitoring must be undertaken on a day on which there has been no major flood event in the preceding 3 weeks. Whenever practicable, sites that have been sampled in the past must be used.</p>
Conditions to Apply to West Coast Regional Council Air Discharge Permit	
25.0 Dust Management Plan	
25.1	The Consent Holder must operate the site in general accordance with a Dust Management Plan. The objective of the Dust Management Plan is to detail the best practicable option to avoid dust nuisance being caused by mining works and to mitigate any such effects should they occur.
25.2	<p>The Dust Management Plan must include as a minimum:</p> <ol style="list-style-type: none"> Potential sources of dust that may be created during the mining project; A description of the receiving environment, and identification of sensitive receptors within 250m of identified potential sources of dust for targeted dust management; Dust management and mitigation methods including management of stockpiles, and details of any flocculant used for dust reduction; Dust monitoring methods, including the location of dust monitoring devices; Procedures for responding to dust and wind-condition based trigger levels and associated follow up investigations, actions and recording of findings; Training of staff and contractors in relation to dust management; Methods for managing complaints regarding discharges of dust including recoding the source of the dust, meteorological conditions at the time the dust was observed; and Keeping of compliance records.
25.3	Vehicles travelling within the site on unsealed roads must not exceed 15 km/hr on site at all times.
25.4	If wind (measured at the meteorological station on the Central Block site) exceeds 20km/hr, the Consent Holder must:

	<p>a. Limit activities that generate dust toward sensitive receptors identified in the Dust Management Plan;</p> <p>b. Conduct frequent visual inspections of exposed earthwork areas; and</p> <p>c. Assess the need for additional controls such as increased water application rates.</p>
26.0 Air Quality Management and Monitoring	
26.1	<p>There must be no offensive or objectionable discharge of dust into air from the minerals extraction, processing, loading and rehabilitation operations that result in an adverse effect beyond the legal boundary of the site.</p> <p>Advice Note:</p> <ul style="list-style-type: none"> • For the purpose of Condition 26.1 the Consent Authority will consider an effect that is offensive or objectionable to have occurred if an Enforcement Officer of the Consent Authority deems it so having regard to: <ul style="list-style-type: none"> a. The frequency, intensity, duration, amount, effect and location of the suspended or particulate matter; and/or b. Receipt of complaints from neighbours or the public; or c. Relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority.
26.2	<p>a. The Consent Holder must install, operate and maintain Dust Deposition Gauges in the locations shown in the Dust Management Plan.</p> <p>b. Dust recorded in the gauges must not exceed a value of 4g/m²/30 days above background levels.</p> <p>c. Records of the dust values must be kept for the duration of the Consent and provided to the Consent Authority upon request.</p> <p>d. Dust deposition gauges will operate as follows: <ul style="list-style-type: none"> i. Commissioned and run to collect 1 year of baseline data prior to mining commencing in respective block ii. Decommissioned 1 year after rehabilitation has been completed. iii. Gauges in the vicinity of Warren Road will be operational throughout the activity. </p> <p>Advice Note:</p> <ul style="list-style-type: none"> • Background levels are to be determined by data collected prior to the commencement date of this consent.
26.3	<p>a. If a breach of Condition 26.2.b is detected, the Consent Holder must notify the Consent Authority within two working days of the breach being detected.</p> <p>b. The Consent Holder must investigate possible reasons for the breach and take all necessary steps to achieve compliance in the following 30-day period.</p>
Conditions to Apply to WCRC Water Take Permit	
27.0 Groundwater abstraction outcomes	
27.1	<p>Mine void and water table exposure and associated mitigation measures must achieve the following outcomes:</p> <p>a. The hydrological responses to mining activity ensure that quality of water discharged to receiving waters will not cause adverse impacts on stream ecology or visual clarity;</p> <p>b. The pre-mining surface drainage patterns are restored such that the catchment areas for Clarke Creek, Granite Creek and other smaller creeks are not changed significantly;</p> <p>c. The contouring and surface drainage installed during mine rehabilitation does not increase the rate of groundwater drainage at the site.</p>
28.0 Diversions	
28.1	<p>The consent holder must not commence any creekworks activity until it has obtained certification from the West Coast Regional Council for the Rehabilitation Management Plan.</p> <p>Advice Note:</p>

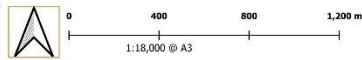
	<ul style="list-style-type: none"> The Rehabilitation Management Plan is to include information on the finalised creekworks for the site. The Native Freshwater Fish Capture & Relocation Plan is to provide information on native fish relocation.
28.2	<p>Creek construction and riparian planting must be undertaken in accordance with the approved Rehabilitation Management Plan and ensure:</p> <ol style="list-style-type: none"> New creeks will be constructed to: <ol style="list-style-type: none"> Ensure no loss of extent, including a minimum extent of; <ol style="list-style-type: none"> Northern Creek – 1,178m Central Creek – 764m Clarke Creek – 681m Wasabi Creek – 733m Southern Creek - 469m Have a meandering pattern; Convey clean water; Be formed, where possible, to include run and pool habitat, and instream creek features including riffles and woody debris; Use a variety of substrate size classes, where possible; Maintain fish passage at all times; Riparian planting will be undertaken to: <ol style="list-style-type: none"> 5m for Granite Creek Minimum of 3m for all other reconstructed creeks ; Stock proof fencing erected on the outside of all riparian planting areas; The Consent Holder shall ensure the on-going maintenance of any riparian planting for a period of no less than two years. This shall include on-going monitoring and eradication of woody weed species which may establish including blackberry and gorse.
28.3	<ol style="list-style-type: none"> Upon two years following permanent diversion of creek to the new channel and completion of riparian planting, fish and macroinvertebrate surveys will be undertaken to confirm recolonisation. Where monitoring concludes that a pre-works equivalent state of ecological health has not been achieved (refer to Condition 24.5), a specific creek diversion and development plan shall be prepared and submitted to the Consent Authority within 2 months following the monitoring undertaken. The Consent Holder must implement any additional works required by the specific creek diversion and development plan within 6 months following the approval by the Consent Authority or during the next planting season (whichever is appropriate to the measure adopted).
28.4	All creek diversion activities shall be undertaken in accordance with the approved methodologies as specified in the ESCP and SSES CPs.
28.5	All temporary creek diversions shall be designed with the same design criteria and hydrological function and profile as the existing creek channel. All permanent creek diversions shall be established to a design criteria and profile that is confirmed and certified through the SSES CP process as per Condition 21.2 above.
29.0 Canoe Creek water take	
29.1	The instantaneous surface water take from Canoe Creek must not exceed 63 litres per second.
29.2	<p>The Consent Holder must undertake monitoring of the surface water take from Canoe Creek at 15-minute intervals and supply this information electronically to the Consent Authority every day, or at the interval instructed in writing by the Consent Authority.</p> <p>Advice Note: <i>The Resource Management (Measurement and Reporting of Water Takes) Amendment Regulations 2020 applies to this water take.</i></p>
29.3	The Consent Holder must maintain auditable records and provide data in the format of date, time and rate that is suitable for electronic storage.

29.4	<p>a. The Consent Holder must maintain the measurement device(s) in good working order so as to maintain a measurement accuracy of within $\pm 5\%$ for a fully pressurised pipe or $\pm 10\%$ for a partially pressurised pipe.</p> <p>b. The Consent Holder must provide the Consent Authority within initial written verification of accuracy from a suitably qualified person that the measurement device measures the volume of water to within $\pm 5\%$ for a fully pressurised pipe or $\pm 10\%$ for a partially pressurised pipe, and thereafter every five years for the term of the consent.</p>
29.5	<p>The Consent Holder must provide the following information to the Consent Authority no later than the ten working days prior to the water being taken under this consent:</p> <p>a. The type of measurement device(s) used to undertake the continuous monitoring together with the manufacturer's statement for that device; and</p> <p>b. The location of the measurement device(s) in relation to the water take point(s).</p>
29.6	<p>Upon notice to the Consent Holder the Consent Authority may require the Consent Holder to cease water abstraction for a period not exceeding 48 hours, in order to undertake monitoring of natural water flows.</p>
29.7	<p>A fish screen on any direct surface water take must be maintained to ensure, as far as practicable, that eels, fish and fry are prevented from passing through the intake or being trapped against the screen.</p>
29.8	<p>This take is not to be operated concurrently with the 12-year water take consent under WCRC-2023-0046.</p>
<p>30.0 Reporting of monitoring information</p>	
30.1	<p>The meteorological and monitoring data collected under conditions 24.1, 26.2 and 29.2 must be made available to the WCRC telemetrically. If this method is not at first feasible, the data must be provided to the WCRC at a frequency and a form advised by the WCRC until such a time as it is technically feasible to telemeter the data.</p>

Schedule 1 – Site Plan



Plan B - Application Area and Mining Disturbance Area



Projection: WGS84 / NZTM2000
Background Imagery: ESRI Satellite
Data Sources: LINZ, Client and/or TPRL Data

Legend:

- Application Area
- Mining Disturbance Area

Schedule 2 – Landscape Mitigation Package

Schedule 3 – Monitoring Sites

