

From: [BDC Lgoima](#)
To: [REDACTED]
Subject: Clarification of Request Required - Earthwork Resource Consent Ref: 086/21
Date: Wednesday, 8 December 2021 3:46:00 pm
Attachments: [200009 Approved Plans.pdf](#)
[200009 Decision.pdf](#)
[image002.png](#)

Dear [REDACTED]

I refer to your official information request dated 30 November 2021 for **earthwork resource consents (esp. for dry bed gravel extraction), since 2015.**

Can you please clarify if you also require mining applications (not necessarily in riverbed) as this is usually associated with earthworks. Otherwise you would need to request any consents (being in a riverbed) from West Coast Regional Council.

Please find attached the only consent that has been granted from Buller District Council since 2015.

Please note, any clarification or amendment of a request is considered to be a new request for the purpose of calculating the maximum statutory timeframe for response—see section 13(7) of the Local Government Official Information and Meetings Act.

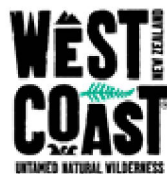
Kind regards

Kirstin McKee | EA to Chief Executive Officer & Mayor | LGOIMA Officer
DDI 03 788 9650 | Email kirstin.mckee@bdc.govt.nz

Buller District Council | Phone 0800 807 239 | bullerdc.govt.nz
PO Box 21 | Westport 7866

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From: [REDACTED]

Sent: Tuesday, 30 November 2021 2:59 PM

To: BDC_Planning <planning@bdc.govt.nz>

Subject: Official Information Request

Kia ora,

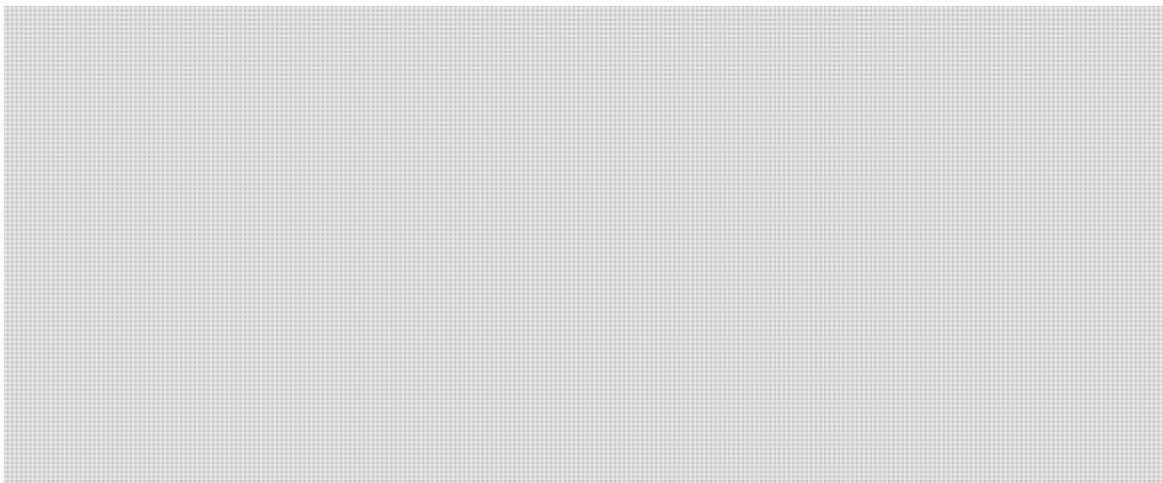
We are writing to you to make a formal request for information, in accordance with section 10 of the Local Government Official Information and Meetings Act 1987.

Please provide the total number of applications granted for earthwork resource consent, specifically for dry bed gravel extraction, the Buller District Council has received each year since 2015 (for 2021, please provide the number of applications granted to 1 December 2021).

If you refuse to supply any material requested, please provide in writing the grounds for the refusal to supply that information and the reasons for those grounds.

Thank you in advance for your assistance. Please contact me if you have any questions regarding this request.

Kind regards,



File Reference: RC200009
Valuation Roll No. 1880027400

10 December 2020

Coopers Drilling Services
PO Box 11116
Waimangaroa 7848

By email: patcooper.5484@yahoo.co.nz

Dear Mr Cooper

APPLICATION FOR RESOURCE CONSENT RC200009

The Buller District Council's decision on the abovementioned resource consent is enclosed.

If you are happy with the decision made by Council, the consent may be acted upon subject to any conditions included in the decision. Council staff will monitor the site to check that conditions have been complied with.

If not acted upon, the consent will lapse after five years from the date of the decision, unless otherwise specified in this decision or unless extended upon application to Council. Please refer to section 125 of the Resource Management Act 1991 (RMA) for further details.

If you do not agree with the whole or any part of the decision, you may appeal the whole or any part of the decision to the Environment Court. An appeal may be lodged with the Environment Court within 15 working days of the date of this notification being delivered to you in the normal course of post. The address of the Environment Court is PO Box 2069, Christchurch 8140. A copy of any appeal should also be sent to the Buller District Council, PO Box 21, Westport 7866.

Please refer to sections 120-121 of the RMA and also the Resource Management (Forms, Fees and Procedure) Regulations 2003 for further details on appealing resource consent decisions.

If you are in doubt about your rights to appeal, or require an extension of time, you should discuss this with your solicitor/agent.

If you have any further queries please do not hesitate to contact the Planning department.

Yours faithfully



Sean Judd
GROUP MANAGER, REGULATORY SERVICES

RESOURCE CONSENT DECISION – RC200009

Pursuant to Sections 104, 104B, 104C and 108 of the Resource Management Act 1991, Buller District Council **GRANTS** the application by Coopers Drilling Services Ltd **subject to the Conditions below.**

The Approved Activity:

The removal of indigenous vegetation and the extraction of aggregate and rock within Mining Permit 60583. Associated activities include the storage and use of hazardous substances (diesel and explosives), rock stockpiling and heavy vehicle movements transporting aggregate and rock off-site.

Location:

Address:	Jones Creek, Birchfield
Legal Description:	Sec 7 Blk V Ngakawau SD and unformed legal road
Record of Title:	NL61/199
Valuation Roll Number:	1880027400

Approved Plans:

- The two aerial site plans provided by the Consent Holder titled: *“Jones Creek MP60583”*
- The aerial site plan titled: *“Jones Creek Quarry - Quarry Access Development Plan”*, Sheet 1 of 4, dated 1 October 2020.
- The aerial site plan titled: *“Jones Creek Quarry - Quarry Extraction Plan”*, Sheet 2 of 4, dated 1 October 2020.
- The location plan titled: *“Richard Nichol’s – Significant Tree Location Plan”*.
- Drawing 6-WROS2.01 titled: *“Rail Crossing Layout and Detail Plan”*, Sheet C11 Rev C, dated 26-8-2020
- Drawing 6-WROS2.01 titled: *“Rail Crossing Cross Section”*, Sheet C12 Rev A, dated 26-8-2020
- Drawing 300 182 titled: *“Epflex Rail Seal - Road and Pedestrian Crossings”*, Rev A, dated Oct 2014
- Drawing 6-WROS2.01 titled: *“Highway Access Tracking Plan”*, Sheet C04, Rev E, dated 20/10/20
- Drawing 6-WROS2.01 titled: *“Highway Access Tracking Plan”*, Sheet C06, Rev E, dated 20/10/20

Please note that the plans which are approved are stamped 'Approved Plan' and attached to this consent.

CONDITION(S):

Pursuant to Section 108 of the Resource Management Act 1991 this consent is granted subject to the following conditions:

General Conditions

1. The activity shall proceed in general accordance with the application received by

Council and the Approved Plans as detailed above and stamped as approved, except where the following conditions take precedence.

2. Rock quarrying shall be restricted to the area outlined in green on the Approved Plan titled: "*Jones Creek MP 60583*". Quarry access shall be established in general accordance with the Approved Plan titled: "*Jones Creek Quarry - Quarry Access Development Plan*". Initial quarry development shall be in general accordance with the Approved Plan titled: "*Jones Creek Quarry – Quarry Extraction Plan*".

Advice Note: Proposed access to the quarrying site is detailed on the Approved Plan titled "Jones Creek Quarry – Access Development Plan", with the exception that the State Highway entrance will utilise the existing vehicle crossing instead of the new crossing shown on this plan.

3. A copy of this resource consent and the Approved Plans shall be available to agents or contractors undertaking the quarrying activities, and shall be produced without unreasonable delay upon request from a servant or agent of the Council.

Annual Work Plan

4. On or before the anniversary date of the commencement of the consent, the Consent Holder shall submit a programme of work ("Annual Work Plan") detailing:
 - (a) The proposed works to be carried out over the next 12 months including:
 - (i) Equipment to be used;
 - (ii) New areas of land disturbance that will be quarried during the forthcoming year;
 - (iii) Access tracking;
 - (iv) Any other site works within the consent area.
 - (b) The approximate disturbed area associated with quarry activities at the start of the reporting year, including depth of excavations.
 - (c) The rehabilitation works to be carried out over the next 12 months including:
 - (i) Areas of unrehabilitated land (i.e. all land not finally topsoiled and revegetated) at the beginning of the reporting year;
 - (ii) Areas proposed to be rehabilitated;
 - (iii) Rehabilitation methods and techniques, including replacement of topsoil and vegetation cover.
 - (d) Description of measures to prevent adverse effects on natural waters, including through access tracking;
 - (e) A detailed aerial site plan showing:
 - (i) The target extraction area at the start of the reporting year;
 - (ii) Location of access tracking;
 - (iii) Rehabilitated ground;
 - (iv) Location of any stockpiled topsoil and vegetation;
 - (v) Location of natural water courses;
 - (vi) Any other site works within the consented area.

5. The Consent Holder shall provide the Consent Authority with any further information, which the Consent Authority may reasonably request after reviewing the Annual Work Plan. This information shall be provided in a timely manner as required by the Consent Authority.
6. The Consent Holder shall undertake activities in accordance with the Annual Work Plan, except that the Consent Holder may, at any time, submit to the Consent Authority an amended work plan provided it complies with all other conditions of this consent.

Bond

7. The Consent Holder shall provide and maintain in favour of the Consent Authority a bond to secure the compliance by the Consent Holder with all of the conditions of the consent.
8. The payment of the bond quantum by the Consent Holder, as required by Conditions 12 or 13, shall either be:
 - (i) A bond in favour of the Consent Authority for the guarantee sum in a form and executed by a surety acceptable to the Consent Authority; or
 - (ii) Deposited with and held in a bank account by the Consent Authority.
9. Where a bond is guaranteed in accordance with Condition 8(i), the guarantor shall 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.
10. Where a bond is deposited in accordance with Condition 8(ii), the interest which is earned on the deposit shall accrue to the Consent Authority and when the deposit is repaid to the Consent Holder, the Consent Holder shall be entitled to receive all interest (less resident withholding tax and any bank fees) together with the deposit sum unless the Consent Authority has had to use the deposit sum (or part thereof), pursuant to Condition 17, in which case the Consent Authority will provide the Consent Holder with a full breakdown of interest earned and the amount of the deposit sum that has been used.
11. The bond (as set at any time under Conditions 12 and 13) shall be held or remain in full force and effect throughout the term of this consent and until all conditions under this consent have been performed unless otherwise agreed by the Consent Authority.

Bond Amount

12. The initial quantum of the bond shall be a total of six thousand NZ dollars (NZ\$6,000.00).

Advice Note: A bond is also required by the West Coast Regional Council under Resource Consent RC-2020-0023. The Buller District Council will accept a joint bond that meets the requirements of both resource consents.

13. The Consent Authority may vary the quantum of the bond from time to time (either up or down) at yearly intervals within two months of the anniversary of the date that the first bond is executed, after the Consent Holder has provided the Consent Authority the Annual Work Plan required under Condition 4.
14. In setting any new bond quantum, the Consent Authority shall:
 - (i) Have regard to the costs at the time of rehabilitating the site to a standard that would ensure compliance with all conditions of consent; and
 - (ii) Take into account the quantum and purpose of any bond provided by the Consent Holder to the landowner.
15. If at any time the quantum of the bond is varied pursuant to Condition 13, then the Consent Holder shall, within thirty days (30) days of being notified of the new bond quantum, execute and lodge with the Consent Authority a new bond for the varied quantum or the additional quantum required in excess of the existing bond. In the event that the Consent Holder does not execute and lodge the required new bond within 30 days, then it shall cease to exercise this consent.
16. The Consent Holder shall complete work requested in writing by the Consent Authority to ensure compliance with the conditions of this consent within the time period specified in the Consent Authority's written request. In the event that the Consent Holder does not complete the requested work, then the Consent Authority may use the part of the bond quantum to complete that work.
17. The Consent Holder shall pay all actual and reasonable costs relating to the administration of the bond.
18. If the consent is transferred in part or whole to another party or person, the bond shall continue until any outstanding work at the date of transfer is completed to ensure compliance with the conditions of this consent, unless the Consent Authority is satisfied adequate provisions have been made to transfer the liability to the new Consent Holder.
19. In the event of any such transfer of the consent, the Consent Holder shall ensure that the transfer forthwith provides a replacement bond to the Consent Authority on the terms required by the Bond Conditions.

Rail Crossing

20. Prior to activities commencing at the site, the Consent Holder shall implement the level crossing mitigation measures in accordance with the following plans:
 - Drawing 6-WROS2.01 titled: "*Rail Crossing Layout and Detail Plan*", Sheet C11 Rev C, dated 26-8-2020
 - Drawing 6-WROS2.01 titled: "*Rail Crossing Cross Section*", Sheet C12 Rev A, dated 26-8-2020
 - Drawing 300 182 titled: "*Epflex Rail Seal - Road and Pedestrian Crossings*", Rev A, dated Oct 2014

To show compliance with the above condition, the Consent Holder is to supply Council with written confirmation from KiwiRail Holdings Ltd that works have been completed to their satisfaction.

State Highway Vehicle Crossing

21. Prior to activities commencing at the site, the existing vehicle crossing from State Highway 67 (Birchfield Road) shall be upgraded to a Diagram E standard. The upgraded crossing shall be constructed in accordance with the following plans:

- Drawing 6-WROS2.01 titled: “Highway Access Tracking Plan”, Sheet C04, Rev E, dated 20/10/20
- Drawing 6-WROS2.01 titled: “Highway Access Tracking Plan”, Sheet C06, Rev E, dated 20/10/20

As part of the upgrade works, the existing State Highway signs shall be relocated, and if damaged, they shall be replaced.

Advice Note: Any revised location for signage will be determined as part of the Waka Kotahi NZ Transport Agency Corridor Access Request process.

22. As part of the formation of the Diagram E access, a minimum 5-metre offset clearance shall be maintained between any power pole and the edge of the taper. The relocation of the power poles shall be at the Consent Holder’s cost.

Advice Note: The Transport Agency’s review of the proposed vehicle crossing upgrade has identified that it will be necessary to relocate the power poles opposite the crossing in order to provide for the upgrade of the existing access. It is the Consent Holder’s responsibility to apply for any permissions from the lines operator for this work.

23. As part of the upgrade of the vehicle crossing, markings (such as painted arrows and signs) shall be provided at the vehicle crossing to clearly denote entry and exit arrangements.

Advice Note: The entry and exit arrangement will be addressed as part of the Corridor Access Request required by Waka Kotahi NZ Transport Agency.

To show compliance with Conditions 21, 22 and 23, the Consent Holder is to supply Council with written confirmation from Waka Kotahi NZ Transport Agency that works have been completed to their satisfaction.

Method of Operations

24. A minimum setback of 10m of undisturbed vegetation shall be maintained adjacent to Jones and Worley Creek banks. This buffer zone shall be identified on the ground in advance of extraction activities by readily identifiable means, such as tape or marker spray.
25. The setbacks from adjoining property boundaries, identified on the Approved Plan titled: “Jones Creek MP 60583”, shall be maintained at all times, with no activities to take

place within these buffer zones. The boundary setbacks shall be identified in advance of extraction activities on the ground by readily identifiable means, such as tape or marker spray.

26. The maximum surface area disturbed by quarrying activities and unrehabilitated at any one time shall not exceed 1 hectare.
27. All surface run-off from the quarry site shall be controlled in such a manner that no sediment enters any waterways.
28. Records shall be kept of the tonnage of rock extracted on a monthly basis, with these records to be made available to the Council on request.
29. Progressive rehabilitation of extraction sites shall be undertaken through contouring and re-spreading of soil/vegetative material to achieve a land surface that does not pond water.

Ecological Mitigation

30. The Consent Holder shall implement the recommended mitigation measures outlined in the ecological assessment prepared by Richard Nichol titled: *"Jones Creek: Assessment of Ecological Effects from Proposed Mining by Coopers Drilling Services"*, dated 18th June 2020. Measures to be implemented shall include:

Vegetation

- a) Machinery shall be cleaned of all organic material prior to arrival at the site to prevent introduction of weed seeds and to avoid the introduction of didymo to waterways.
- b) All large stature northern rata shall be retained, as identified in the two aerial site plans titled: *"Richard Nichol's – Significant Tree Location Plan"*. These trees shall be identified on the ground in advance of extraction activities, along with an adequate area around the base of the tree to protect the root zone from disturbance.
- c) Where possible, Nikau seedlings shall be salvaged and used for rehabilitation of disturbed areas.

Avifauna

- d) Prior to extraction activities commencing (and ideally no more than 2 weeks prior to disturbance), a search for great spotted kiwi within the area of proposed works shall be undertaken by a certified kiwi tracking dog and handler to ensure that no roosting or nesting kiwi are present. The outcome of the search shall be reported to the Council within 1 week of the search being conducted.
- e) If kiwi roosting or nesting sites are confirmed by the search required by clause d) above, the Consent Holder shall consult with the Department of Conservation in relation to appropriate management measures, with recommended measures to be implemented by the Consent Holder.

Long-tailed bats

- f) A survey for bats by a suitable ecologist shall be undertaken during the period November 2020 to March 2021, with the outcome of the search to be reported

to the Council within 1 week of the search being conducted. If bat roosting sites are confirmed, the ecologist shall advise appropriate management measures, following consultation with the Department of Conservation. The measures recommended by the ecologist shall be implemented by the Consent Holder.

Advice Notes:

- *A summary of the recommended ecological mitigation measures is set out in pages 19 and 20 of Richard Nichol's ecological assessment. It is noted that the mitigation measures include measures to protect fish and lamprey, which are expected to be addressed through the WCRC consent process.*
- *The Consent Holder shall be responsible for obtaining from the Department of Conservation any Wildlife Permits that may be required to carry out wildlife management.*

Operational Hours

31. Quarrying activities and truck movements associated with off-site removal of rock shall be restricted to the hours of 8am to 5pm Monday to Saturday.

Noise

32. Noise from quarrying and associated activities shall not exceed the following limits when measured at the boundary of any land used for a residential activity:

Monday to Saturday	8.00am – 11.00pm	55dBA L10
Saturday	8.00am – 6.00pm	55dBA L10
At all other times including any public holiday		45dBA L10, Lmax 75dBA

Sound levels shall be measured in accordance with NZS 6801:1991 'Measurement of Sound' and assessed in accordance with the provisions of NZS 6802:1991 'Assessment of Environmental Sound.'

Advice Note:

The boundary of any land used for a residential activity is measured at the notional boundary of 20m from any occupied dwelling.

Blasting

33. Blasting shall be restricted to the hours between half an hour after sunrise to half an hour before sunset.
34. Details of all blasts shall be entered into a record book kept for that purpose and shall be available to the Council on request.
35. Noise created by use of explosives shall not exceed a peak overall sound pressure of 128dB measured at a notional boundary of 20m from any occupied dwelling.

Complaints and Non-compliance

36. Upon receipt of any complaint, the Consent Holder shall promptly investigate the complaint, take action to remedy or mitigate the cause of the complaint and inform the Council as soon as practicable of the details of the complaint and the action taken.
37. In the event of any breach of compliance with the conditions, the Consent Holder shall notify the Council within 48 hours of the breach being detected. Within 7 days of any breach, the Consent Holder shall provide written notification to the Council which explains the cause of the breach, and if the cause was within the control of the Consent Holder, steps which were taken to remedy the breach and steps which will be taken to prevent any further occurrence of the breach.

Cultural and Heritage Sites

38. In the event of any disturbance of Koiwi Tangata (human bones) or Taonga (artefacts, including pounamu), the Consent Holder shall:
 - a) Cease any further excavation for a period of at least 24 hours; and
 - b) Immediately advise the Council of the disturbance;
 - c) Immediately advise the Upoko of the Papatipu Runanga or representative, of the disturbance.
 - d) Immediately advise the Regional Archaeologist of Heritage New Zealand except in relation to disturbance of unworked pounamu.
39. If the Consent Holder identifies any archaeological discoveries or potential areas or sites of historic value, the Consent Holder shall immediately notify the Council and a representative of Heritage New Zealand.

Hazardous Substances

40. Refuelling, lubrication, mechanical repairs and storage of hazardous substances shall be undertaken in such a manner so as to ensure that spillages of hazardous substances onto the land surface or into a waterbody does not occur.
41. Appropriate spill kits shall be retained on-site to enable immediate action to remedy and/or mitigate any accidental spills of hazardous substances.
42. Any accidental discharge of greater than 20 litres of diesel shall be reported immediately to the Council, along with details of the steps taken to remedy and/or mitigate the adverse effects of the discharge.

Monitoring

43. All actual and reasonable costs incurred by this Council in monitoring, enforcement and administration of this consent shall be met by the Consent Holder.

NOTE(S):

1. A monitoring administration fee of \$100.00 has been included on your consent

invoice. Please note that further fees are likely in accordance with Condition 43.

2. If you do not understand any or all conditions of this consent, please contact Council's Planning Department for clarification before starting work.
3. Pursuant to section 127(1) of the Resource Management Act 1991, the Consent Holder may apply to the consent authority for a change or cancellation of any condition of this consent.
4. This consent shall lapse five (5) years after the decision date if not given effect to.
5. The Consent Holder is responsible for ensuring all appropriate permissions are in place for extraction of rock. A mining permit may be required from New Zealand Petroleum & Minerals.

PLANNING OFFICER'S REPORT

A copy of the Planning Officer's Report is attached to this consent. The Officer's Report outlines the reasons for the decision.



Dated at Westport this 10th day of December 2020

DECISION REPORT – LIMITED NOTIFIED CONSENT – RC200009

DATE: 25 November 2020

TO: Delegated Planning Sub-Committee

REPORTING OFFICER: Rebecca Inwood, Planning Consultant

Applicant: Cooper Drilling Services Ltd

Subject Site: Jones Creek, Birchfield

Legal Description: Sec 7 Blk V Ngakawau SD and unformed legal road

Zoning: Rural - Buller District Plan

Consents Sought: Land use consent for the removal of indigenous vegetation and quarrying of aggregate and rock. Associated activities include the storage and use of hazardous substances (diesel and explosives), rock stockpiling and heavy vehicle movements.

1.0 Application Description

- 1.1 The proposal is for indigenous vegetation disturbance and quarrying of aggregate and rock that is to be taken off-site and utilised for protection works throughout the District. The Mining Permit associated with the activity covers an area of 31.83ha, however the area sought for this consent is a reduced footprint due to setbacks from property boundaries and creek banks, as identified on the Approved Plan. The extraction site is on private land owned by Dawn Jack and unformed legal road.
- 1.2 Diorite boulders up to one metre or more in diameter will be targeted by the quarrying operation. These boulders are incorporated within lag deposits up to 3m deep that occupy low terraces on both sides of Jones Creek and Worley Stream, as well as on an elevated terrace between the two streams. In addition, boulders deposited in old flood channels and in the existing dry streambeds will also be targeted (noting that extraction activities within the active creek channels is subject to West Coast Regional Council controls). The dry-bed areas of the creeks will be accessed from existing vehicle crossing points or junctions of old flood channels. This will preclude the need to disturb riparian vegetation.
- 1.3 The Applicant advises that Diorite rock has high specifications and is therefore suitable for coastal erosion protection works due to its hardness and resultant durability, with such rock scarce in the Buller district.
- 1.4 Extraction of boulders will be undertaken using a three fingered hydraulic grapple attachment on a 30-tonne excavator. The digger will access the extraction sites from existing tracks and creek crossings and progress up-valley beside Jones and Worley Creeks. A 10m strip of riparian vegetation will be retained between extraction activities and creek banks. The Applicant advises that the use of a hydraulic grapple will minimise the crushing and grinding that accompanies work undertaken with a

digger bucket, thereby reducing noise as well as production of fines which may contaminate the streams on the access routes.

- 1.5 Boulders will be individually extracted and loaded onto a 'wiggly' truck and transported to a temporary stockpile where it will remain until needed for a specific rock campaign. The stockpile area is to be located on land that is in the process of being purchased by the Applicant. Rock will be transported off-site from the rock stockpile via an existing access road, as detailed on the Approved Plan. The Applicant advises that when rock is being carted off-site, maximum truck movements will be 4 trips per hour (i.e. 8 tipulator truck movements in and out), with truck movements triggered by specific contracts for rock. Access onto the State Highway requires crossing off the Ngakawau to Stillwater railway line.
- 1.6 In addition to the above activities, the Applicant is also proposing rock quarrying at two locations in the upper reaches of the application area where Britannia Granite outcrops. This would only be undertaken if the readily accessible rock resource is exhausted. Quarrying of in-situ rock will require the use of explosives at locations that are remote from any dwellings, blasting is to be carried out by local explosive company, Orica, in accordance with standard practices.
- 1.7 The Applicant proposes recovering aggregate/rock over discrete areas which will be progressively rehabilitated before moving onto another extraction area. The site is expected to revert to indigenous vegetation via natural regeneration, assisted with planting of seedlings by the Applicant.
- 1.8 Other key points to note with the proposal are:
 - Consent is sought for a 20-year term with an anticipated minimum of 5,000 tonnes of rock to be extracted per annum. A maximum extraction figure is unknown.
 - Access to the subject site is via existing crossings off State Highway 67 and over the Ngakawau to Stillwater railway line.
 - Operational hours will be 8am to 5pm Monday to Saturday for both rock extraction and truck movements.
 - Site infrastructure may include a portaloo and skid mounted smoko room.
 - Hazardous substances in the form of diesel and hydraulic oils will be utilised on-site. A 2,000 litre mobile diesel tank will be used for refueling of machinery. An emergency spill kit is to be kept on-site. Explosives are expected to be used at the two hard-rock quarry locations in the upper reaches of the application area.

2.0 Subject Site and Local Environment

- 2.1 A site visit with the Applicant was undertaken on 11 March 2020.
- 2.2 The rock extraction site encompasses Jones and Worley Stream catchments and an elevated terrace between the two streams which is accessed by an existing track. The subject site includes a land parcel owned by Dawn Jack and unformed legal road adjacent to Jones Creek. Access to the rock extraction site will be via existing access off State Highway 67 and a crossing over the Ngakawau Branch railway. Existing tracks adjacent to Jones and Worley Creeks will provide access to the rock and aggregate extraction locations.

2.3 Conservation land adjoins the subject site to the east and south. To the north and north-west is legal road and a land parcel owned by PJ Cain, with a 60m setback between rock extraction activities and this land parcel (originally the Applicant proposed a 10m setback but following the submission process this was increased to 60m). To the south east is an undeveloped land parcel with a 60m setback proposed off this boundary. The closest residential dwelling is located approx 150m to the west of the subject site at the closest point (owned by McKenzie/Bell). The next closest dwellings are located approximately 600m to the north and north-west (PJ Cain and Dobb/Coates, with the later property in the process of being purchased by the Applicant).

2.4 The predominant vegetation cover of the rock extraction site is indigenous vegetation, hence an ecological assessment was requested and provided by local ecologist, Richard Nichol (refer report titled: *"Jones Creek: Assessment of Ecological Effects from Proposed Mining by Coopers Drilling Services"*, dated 18th June 2020). The following extracts from Mr Nichol's report describe the application area:

"...two main landform types, being the incised river catchments of Worley Stream and Jones Creek which drain off the western slopes of the Papahua Range and the gently-sloping western aspect terrace at about 100m elevation between the two streams. This terrace has been cleared to grazed farmland but has since reverted and is dominated by tall gorse and manuka covered with cleared grass strips throughout, and small groupings or individual podocarps, dominated by Kahikatea. The vegetation through the remainder of the area is dominated by mixed podocarp-hardwood forest of variable age and smaller areas of planted exotics (Tasmanian blackwoods, pines and macrocarpa), plus modified areas on tracks and track fringes. Isolated areas of hard beech forest occur towards the upper (southern) portion of the mining permit area..."

Much of the area associated with the lower river terrace of Jones Creek (i.e. among the most affected by this proposal), comprises low stature, immature hardwood dominated. The trunk diameter of many of the trees within this terrace forest are typically 15-20cm in diameter, and this indicates trees that are only a few decades old. It appears likely that this forest arose after a single disturbance event – the 1968 Inangahua earthquake seems a likely cause....

It appears that the river terraces have been subject to a history of periodic disturbance, including recent modification, since few of the trees reach a great stature. However, the exception to this is the presence of a scattering of large northern rata on both sides of Jones Creek, as well as Worley Stream but which tend to be more common on the true left of the creek. These individual rata trees are visible in aerial imagery and have been identified as significant trees that should be avoided by the proposed work. There is general uniformity in the height of these large specimens, with most reaching a height of at least 20m, with the greatest being approx. 25m tall. The girth of these trees varies between about 1.5m and 4m at breast height, indicated that these individuals are several hundred years old...Only a few large northern rata were found within Worley Stream catchment...

2.5 Vegetation species of note included lowland horopito, nikau and the northern rata mentioned above. Mr Nichol's report considered that the vegetation triggers a number of the criteria for significance, as defined by the District Plan, with some of

the greatest value being associated with old, large stature northern rata, as well as a high density of regenerating nikau within the river terrace forest associations.

- 2.6 Mr Nichol considers that Jones Creek provides important high-quality freshwater habitat for a wide variety of life-stages of a number of different indigenous fish species, including a number of threatened species.
- 2.7 Ten indigenous bird species were noted within the application area. With the exception of kiwi, none of the avifauna are classified as Threatened. As regards kiwi, Mr Nichol noted that one suspected kiwi pair was heard, while three male birds were heard that may be single or paired birds. All of the kiwi heard appeared to be calling from outside the application area, although one male was close to the boundary.
- 2.8 The long-tailed bat has a threat status of Threatened: Nationally Critical and is known to occur on the West Coast especially in the northern part of the region. No bat monitoring was undertaken as part of the ecological assessment due to bats being inactive during cooler periods.
- 2.9 Mr Nichol considered that two gecko species may be present within the application areas. These are Forest gecko and the Raukawa gecko. Both species, if present, are likely to occur at low densities.

3.0 Buller District Plan

- 3.1 The proposal is located within the Rural Zone, where quarrying/mining and incidental earthworks are a Restricted Discretionary activity under Rule 5.3.2.4.2 of the Buller District Plan. Matters for consideration are wide ranging and include effects on waterbodies and riparian margins, hours of operation, protection of areas of significant indigenous vegetation and habitats of indigenous fauna, site restoration, rehabilitation or revegetation and noise control.
- 3.2 Associated with the proposal is the removal of indigenous vegetation, storage and use of hazardous substances, rock stockpiling and truck movements. These activities trigger the following rules:

Rule 5.3.2.4.4 - indigenous vegetation clearance exceeding 5ha per site is a Restricted Discretionary activity. The current proposal will result in disturbance/removal of indigenous vegetation in excess of 5ha.

Rule 5.3.2.3.1 – any land use which complies with standards for Discretionary activities in Table 5.7. The current proposal involves temporary stockpiling of extracted rock which meets the relevant standards for Discretionary activities.

Rule 6.4.2.7 – storage and use of hazardous substances is a Discretionary activity due to the inability to meet all the controlled criteria. The current proposal involves a 2000-litre diesel tank for re-fueling machinery and the use of explosives for blasting in-situ rock at two locations.

Rule 7.4.1.2. – Where the activity generates more than 60 vehicle movements per day, it will be assessed as a Restricted Discretionary activity. The current proposal will generate a maximum of 30 heavy truck movements per day (equating to 180

equivalent car movements).

- 3.3 Where more than one activity is involved in a particular proposal and those activities are inextricably linked, the general rule is that the activities should be bundled, and the more restrictive activity classification applied to the overall proposal. On this basis, all the activities associated with the quarrying proposal are bundled as a Discretionary activity.

4.0 Limited Notification

- 4.1 The Applicant provided written approvals for the proposal from the following affected parties:

- Dawn Jack
- Alister McKenzie
- Department of Conservation

It is noted that access to the rock extraction site will traverse through Lot 1 DP 315506, with the proposed rock stockpile located on this land parcel. The Applicant, Cooper Drilling Services Ltd, has a Sale & Purchase agreement to purchase Lot 1 DP 315506 from the current owners Dobbs & Coates. At the time of writing this report it is understood that the land purchase has been completed. On this basis Dobbs & Coates have not been treated as affected parties.

- 4.3 However, a number of other parties were considered adversely affected by the proposal (as listed below), with the Applicant unable to provide written approval from these parties:

- PJ Cain
- NZ Transport Agency
- KiwiRail

- 4.4 As a result, the application was limited notified on 14 July 2020, with the submission period closing on 11 August 2020. A total of three submissions were received for this application, 1 in partial support and 2 in opposition, the details of which is set out below. It is noted that the West Coast Regional Council also limited notified the regional application around the same time.

Submitter	Address	Support/ Opposition	Reasons/ Issues raised	Wishes to be heard
Peter Cain	758 Birchfield Road, Westport	Partial Support	Requested the application be amended to increase the setback off his property boundary to 60m due to stability concerns.	Yes
KiwiRail Holdings Ltd	PO Box 593 Wellington 6140	Partial Opposition	Not opposed to the proposed use of its corridor at this location but needs to ensure that the safety effects are addressed. KiwiRail seeks for the Applicant to amend the application to include the level crossing mitigation measures set out below and that these are implemented prior to operations commencing at the site: <ul style="list-style-type: none"> • Approach gradients at the crossing are to be formed at 1% grade; • Accessway approaches are to be sealed 	Yes

Submitter	Address	Support/ Opposition	Reasons/ Issues raised	Wishes to be heard
			for the first 10m back from the nearest rail <ul style="list-style-type: none"> • The track surface is to be sealed • Duplicate Stop signs are to be installed • WX1L Advanced warning "Choo Choo" train signs are to be installed • Stop sign road markings are to be installed • The new road alignment design and construction must provide all drivers the maneuvering room to position their vehicles at a right angle to the railway lines at the crossing limit lines. 	
NZTA	PO Box 1479 Christchurch 8011	Oppose	NZTA advised that the existing vehicle crossing for the application sites does not meet NZTA guidelines with the Applicant proposing a new location for access approximately 110m south of the existing vehicle crossing. The new vehicle crossing would separate the truck movements from the residential vehicle movements when entering and exiting from the State Highway. The proposed location for access ensures that the minimum required sight distances are met. The vehicle crossing would be constructed to a modified NZTA Diagram C, with 15m radius to allow for heavy vehicles to enter and exit safely and effectively. Permanent hinged truck crossings signs would also be required. As the new vehicle crossing goes directly into the KiwiRail corridor there needs to be support from KiwiRail before formal agreement can be made with NZTA.	Yes

4.5 Following receipt of the three submissions, the Applicant requested that processing of the application be suspended under s91A of the Resource Management Act to allow time to resolve the matters raised in the three submissions. Processing was suspended as of 19 August 2020.

5.0 Resolution of Submissions

5.1 The Applicant engaged in discussions with all three parties in order to resolve the matters raised in submissions. Mr Cain's submission was resolved through the Applicant agreeing to increase the setback from Mr Cain's property boundary from 10m to 60m, with the Approved Plan amended accordingly. The 60m setback forms a condition of consent.

5.2 As regards KiwiRail's submission, the Applicant agreed to incorporate approved design drawings as part of the proposal. The drawings included safety upgrades to address the concerns set out in KiwiRail's original submission. The Applicant is required to implement level crossing mitigation measures prior to operations commencing at the site and this forms a condition of consent. On this basis, KiwiRail withdrew their request to be heard via correspondence dated 14 October 2020.

- 5.3 As regards NZTA, their concerns were also addressed through the Applicant volunteering to upgrade the existing vehicle crossing off the state highway to a NZTA Diagram E standard. On this basis, NZTA considered the crossing and location suitable for both existing and proposed demand. The design standard and related requirements form conditions of consent. On this basis, NZTA withdrew their request to be heard via correspondence dated 23 November 2020.

Section 100 of the Act

- 5.4 Due to the nature of the proposal and the fact that the three submitters have withdrawn their request to be heard, a hearing is not considered necessary pursuant to Section 100 of the Act.

6.0 Part 2 of the Act

- 6.1 This application has to be considered, subject to Part 2, on its merits in accordance with the provisions of Section 104 of the Act. Conditions of consent may be imposed pursuant to Section 108 of the Act should consent be granted.
- 6.2 Section 5 sets out the Purpose of the Act, and states:
- (1) *The purpose of this Act is to promote the sustainable management of natural and physical resources.*
 - (2) *In this Act, sustainable management means managing the use, development, and protection of natural and physical resources in a way, or at a rate, which enables people and communities to provide for their social, economic, and cultural wellbeing and for their health and safety while—*
 - (a) *Sustaining the potential of natural and physical resources (excluding minerals) to meet the reasonably foreseeable needs of future generations; and*
 - (b) *Safeguarding the life-supporting capacity of air, water, soil, and ecosystems; and*
 - (c) *Avoiding, remedying, or mitigating any adverse effects of activities on the environment.*
- 6.3 Section 6 details matters of national importance to be recognised and provided for. The proposal triggers consideration of the following matters of national importance:
- (a) *the preservation of the natural character of the coastal environment (including the coastal marine area), wetlands, and lakes and rivers and their margins, and the protection of them from inappropriate subdivision, use and development.*
 - (c) *The protection of areas of significant indigenous vegetation and significant habitats of indigenous fauna.*

The proposal comprises a 10m setback from the banks of Jones Creek and Worley Streams and this forms a condition of consent. This buffer zone will ensure the natural character of these streams is maintained.

The majority of the area proposed for quarrying is covered in indigenous vegetation. The ecological assessment describes the area as being dominated by immature forest that appears to have a relatively recent disturbance history. However, the ecologist considers the vegetation triggers a number of the criteria for significance as defined by the District Plan, with some of the greatest values being associated with old, large

stature northern rata, as well as a high density of regenerating nikau within the river terrace forest associations. Great spotted kiwi were also heard beyond the boundary of the application area but may utilise the area at times. The ecologist recommended mitigation measures to minimise the effects on flora and fauna values, these all form conditions of consent.

6.4 Section 7 sets out other matters to which Council shall have particular regard. Of relevance to this application are:

- (b) the efficient use and development of natural and physical resources*
- (c) the maintenance and enhancement of amenity values:*
- (d) intrinsic values of ecosystems*
- (f) Maintenance and enhancement of quality of the environment.*

The proposal is considered to be an efficient use of physical resources given it will enable access to rock which is a sought-after commodity in the District.

The term “amenity values” is defined in Section 2 of the Act, as those natural or physical qualities and characteristics of an area that contribute to people’s appreciation of its pleasantness, aesthetic coherence, and cultural and recreational attributes. The proposed rock/aggregate extraction site is within the Rural Zone setback from residential activities. Noise controls will be imposed to ensure noise levels generated by the proposal remain within acceptable limits.

The ecological report recommended mitigation measures to minimise the effect of the proposal on flora and fauna. These measures form conditions of consent, therefore the intrinsic value of ecosystems and quality of the environment has been considered and provided for.

6.5 Section 8 relates to the principles of the Treaty of Waitangi which shall be taken into account when considering matters under the Act, including resource consent applications. To my knowledge there are no matters pertaining to the Treaty of Waitangi that are of a concern for this application.

7.0 Section 104 of the Act - Assessment of Application

7.1 Under Section 104 of the Act:

- (1) When considering an application for a resource consent and any submissions received, the consent authority must, subject to Part 2, have regard to—*
 - (a) any actual and potential effects on the environment of allowing the activity; and*
 - (b) any relevant provisions of—*
 - (i) a national environmental standard:*
 - (ii) other regulations:*
 - (iii) a national policy statement:*
 - (iv) a New Zealand coastal policy statement:*
 - (v) a regional policy statement or proposed regional policy statement:*
 - (vi) a plan or proposed plan; and*
 - (c) any other matter the consent authority considers relevant and reasonably necessary to determine the application.*

7.2 As the application is for a Discretionary activity, Sections 104B of the Act are relevant:

*104B. Determination of applications for discretionary or non-complying activities
After considering an application for a resource consent for a discretionary activity or non-complying activity, a consent authority—*

- (a) may grant or refuse the application; and*
- (b) if it grants the application, may impose conditions under section*

Section 104(1)(a) - Actual and Potential Effects on the Environment

7.3 I consider that the adverse effects of the activity on the environment will be no more than minor for the following reasons:

- (i) Affected party approvals have been provided from the landowner, Dawn Jack and adjoining landowners Alister McKenzie and Department of Conservation. In accordance with s104(3)(a)(ii), when considering an application, a Consent Authority must not have regard to any effect on a person who has given written approval to the application.
- (ii) Access to the application site is via existing crossings off State Highway 67 and over the Ngakawau branch line. Through the submission process and subsequent discussions with NZTA and KiwiRail, the Applicant has agreed to upgrade both crossings in order to address safety and functionality concerns. The upgrades are to be undertaken in accordance with approved design standards confirmed with NZTA and KiwiRail and form conditions of consent.
- (iii) The majority of the area proposed for quarrying is covered in indigenous vegetation. The ecological assessment describes the area as being dominated by immature forest that appears to have a relatively recent disturbance history. The most significant values relate to the lower creek terraces rather than on the terrace between the two creeks, as this terrace is described by the ecologist as being affected in a major way by invasive gorse and has been subject to recent human induced modification.

Under 4.8.7 of the Buller District Plan, there are nine criteria specified as a guideline to identify areas of significant indigenous vegetation and significant habitats of indigenous fauna. An ecological assessment was provided from ecologist Richard Nichol which included an assessment against the District Plan criteria. While not explicitly stated, the conclusion appears to be that the vegetation within the application area is significant in terms of section 6c of the RMA, based on the criteria of the District Plan. The report concludes that: *"The vegetation/forest habitat area scores moderately high for representativeness, distinctiveness, intactness and connectivity and a number of mitigation measures have been proposed by the Applicant or recommended below to mitigate for vegetation loss or disturbance"*.

The ecologist recommends that the large stature northern rata trees adjacent to Jones and Worley Creeks are to be retained and this forms a condition of consent. The presence of a high density of nikau is also regarded by the ecologist as distinctive with salvage of seedlings recommended for rehabilitation purposes. Other mitigation measures include maintaining a 10m undisturbed setback along

the riparian margins of Jones and Worley Creeks and cleaning of machinery prior to arrival on site to prevent introduction of weeds and didymo. Given great spotted kiwi were heard close to the boundary of the application area, the ecologist recommended further monitoring for potential kiwi presence.. All these mitigation measures form conditions of consent.

Given the ability to mitigate effects on key ecological values within the application area, I am satisfied that the overall ecological effects will be no more than minor.

- (iv) The proposal involves the removal of rock from within the beds of Jones and Worley Creeks. This activity requires consent from the West Coast Regional Council, where the impacts on freshwater values and integrity of the stream channels will be considered. The ecological report recommends that no rock is extracted from within the wetbed of the creek to prevent mobilisation of sediment and it is understood that this requirement will form a condition of the Regional Consent.
- (v) In terms of the wider amenity effects of the proposal, activities will be intermittent, dependent on individual contracts for rock. Operational hours for both aggregate/rock extraction and heavy vehicle movement associated with removal of rock are limited to 8am to 5pm Monday to Saturday and anticipated truck movements are to be staggered over an operational day, with a maximum of 8 trips per hour. These aspects form conditions of consent.

The extraction site will not be visible from State Highway 6 nor any residential activities due to topography and vegetation (with the possible exception of Mr McKenzie's elevated dwelling, but he has provided affected party approval).

While a noise report has not been provided, the Applicant considers that noise will not pose a nuisance given the extraction methodology and rural location setback from neighbouring dwellings. This is accepted.

While the extraction activities will result in changes to the landscape given the associated clearance/disturbance of vegetation, there will be no long-term landscape impacts given disturbed sites are expected to naturally regenerate given the location within established forest, assisted by plantings by the Applicant.

- (vi) The Applicant describes the positive social and economic effects as: *"The Jones Creek and Worley stream rock deposits are an important rock resource for the Buller....It is a low impact resource, compared with comparable rock resources that are located well outside the district... Coopers Drilling Services is a local company and this project will generate income for contracting companies and provide much needed rock for local infrastructure protection"*.
The positive effects are accepted, and it is considered that the proposal will contribute to the economic and social wellbeing of the Buller community.

Conclusion

- 7.4 Taking into account the assessment above, in my opinion the proposal will have no more than minor effects on the environment.

Section 104(1)(b) - Relevant provisions of standards, policies and plans

West Coast Regional Policy Statement

- 7.5 The new RPS became operative on 24 July 2020 and provides the overall direction for management of natural and physical resources on the West Coast. The RPS gives consideration to both economic and environmental considerations in resource management decision making.
- 7.6 The proposal is considered consistent with the provisions of the RPS given it provides economic benefits while ensuring the environmental effects are appropriately mitigated.

Operative Buller District Plan

- 7.7 I have considered the proposal in terms of the relevant objectives and policies contained within the operative District Plan (included as Appendix One to this report), and in my opinion, the proposal is consistent with them.

Proposed Buller District Plan

- 7.8 I have also considered the relevant objectives and policies of the proposed District Plan and consider that the proposal is consistent with these provisions.

Section 104(1)(c) – Other Matters

- 7.9 There are considered to be no other matters of relevance to this application.

8.0 Conclusion and Recommendation

- 8.1 I consider that the effects of the proposal will be no more than minor and that the proposal is consistent with the relevant policies and objectives of both the operative and proposed District Plans.
- 8.2 Therefore, it is recommended that the land use consent for rock/aggregate extraction is granted by the Buller District Council, subject to the conditions outlined in the decision document.

APPENDIX ONE

Relevant Objectives and Policies of the operative Buller District Plan

Infrastructure

Objective 4.2.5.1 - *To provide for the efficient development, operation and maintenance of infrastructure throughout the District, while avoiding, remedying or mitigating adverse effects.*

Policy 4.2.6.3 - *To utilise a roading hierarchy which enables the effects of activities on the roading resource to be avoided, remedied or mitigated depending on the status of the road in the hierarchy.*

Rural Land and Water Resource

Objective 4.4.4.1 - *To ensure that the overall integrity and character of the rural environment and productivity of rural land resources is protected while enabling rural communities to provide for their social, economic and cultural well-being.*

Policy 4.4.5.1 - *A wide range of compatible activities which do not individually or cumulatively adversely affect the sustainability of rural land resources shall be generally permitted to locate in the rural area.*

Policy 4.4.5.2 - *Sustainable land management practices which maintain and/or enhance the productive values of soils and amenities and character of the rural area shall be encouraged and promoted.*

Mineral Resources

Objective 4.5.4.1 - *To enable people and communities to provide for their economic and social wellbeing through the efficient utilisation and development of mineral resources.*

Objective 4.5.4.2 - *To safeguard the life supporting capacity of air, water, soil and ecosystems and avoid, remedy or mitigate adverse effects from the use and development of mineral resources.*

Policy 4.5.5.1 – *The adverse effects of activities related to the utilisation of mineral resources shall be avoided, remedied or mitigated.*

Policy 4.5.5.5 – *To require mineral resource related activities to incorporate measures to protect quality and ecosystems, and to provide for the rehabilitation of disturbed areas to generally their original condition or another suitable condition as approved by Council.*

Ecosystems and Natural Habitats

Objective 4.8.6.1 – To protect areas of significant indigenous vegetation and significant habitats of indigenous fauna and to recognise their importance to the character and quality of the natural and physical environment and to the wellbeing of the people and communities in Buller

Policy 4.8.7.1 – The adverse effects of land use activities on natural habitats and ecosystems shall be taken into account when considering development proposal which impact on these areas.

Policy 4.8.7.2 – The protection and enhancement of the natural values of wetlands, estuarine habitats, whitebait spawning areas, significant indigenous vegetation and significant habitats of indigenous fauna shall be encouraged.

Policy 4.8.7.4 – For the purposes of Section 6(c) of the Resource management Act 1991, the flowing criteria will be used as guidelines to identify areas of significant indigenous vegetation and significant habitats of indigenous fauna:

Policy 4.8.7.6 – In the interim the Council will make decisions on resource consent applications which recognise and provide for the protection of:

1. Significant indigenous vegetation and indigenous habitat;
2. Natural values associated with riparian margins.

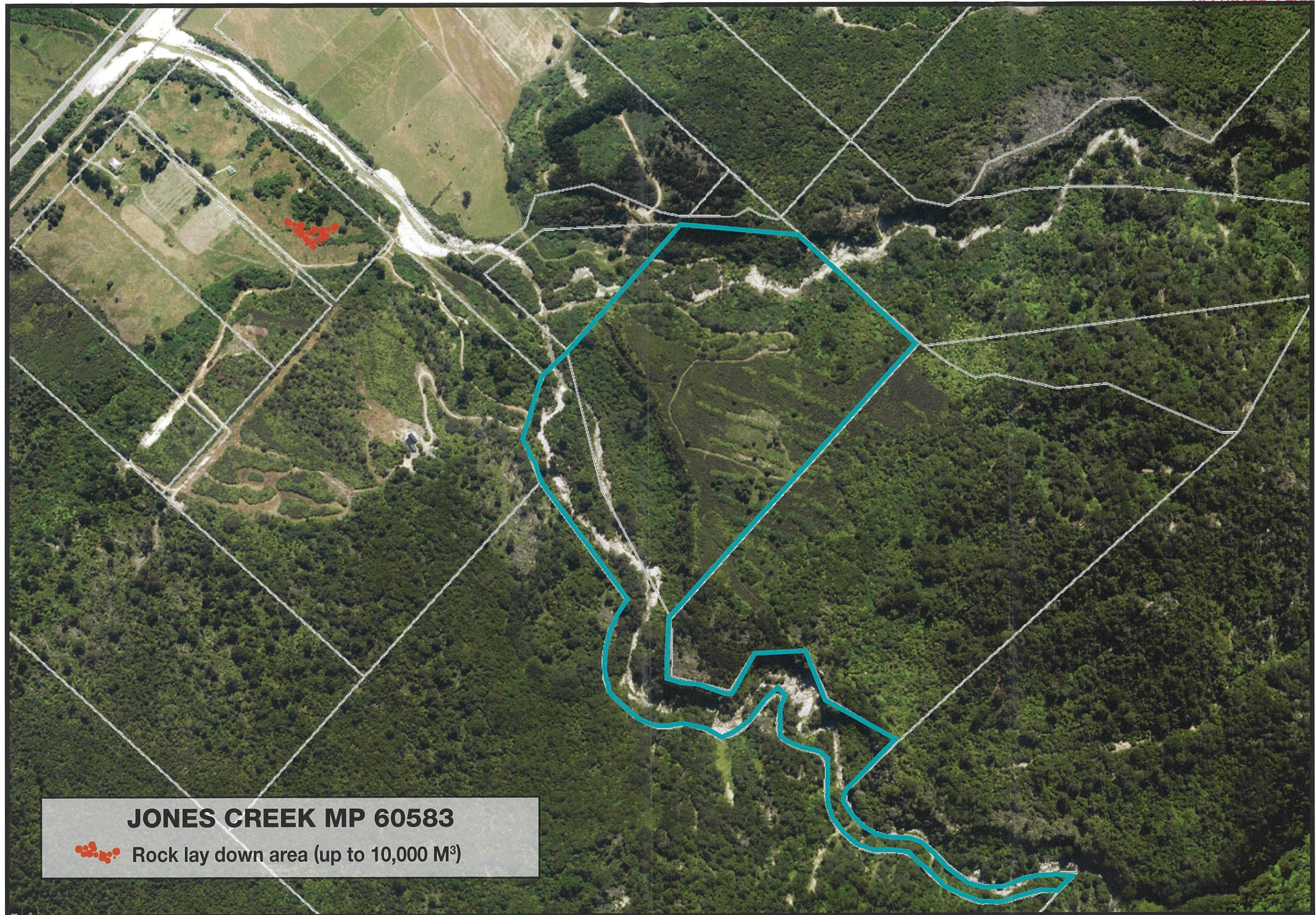
Policy 4.8.7.7 – To protect areas of significant indigenous vegetation and significant habitats of indigenous fauna from inappropriate use, subdivision and development.

Policy 4.8.7.8 – To encourage the retention of existing indigenous vegetation on the margins of waterways, wetlands and the coast and the enhancement of these areas through the use of indigenous vegetation where rehabilitation plantings are to be carried out.

Hazardous Substances

Objective 4.11.5.1 – *To encourage and promote the safe and efficient handling and disposal of hazardous substances throughout the District.*

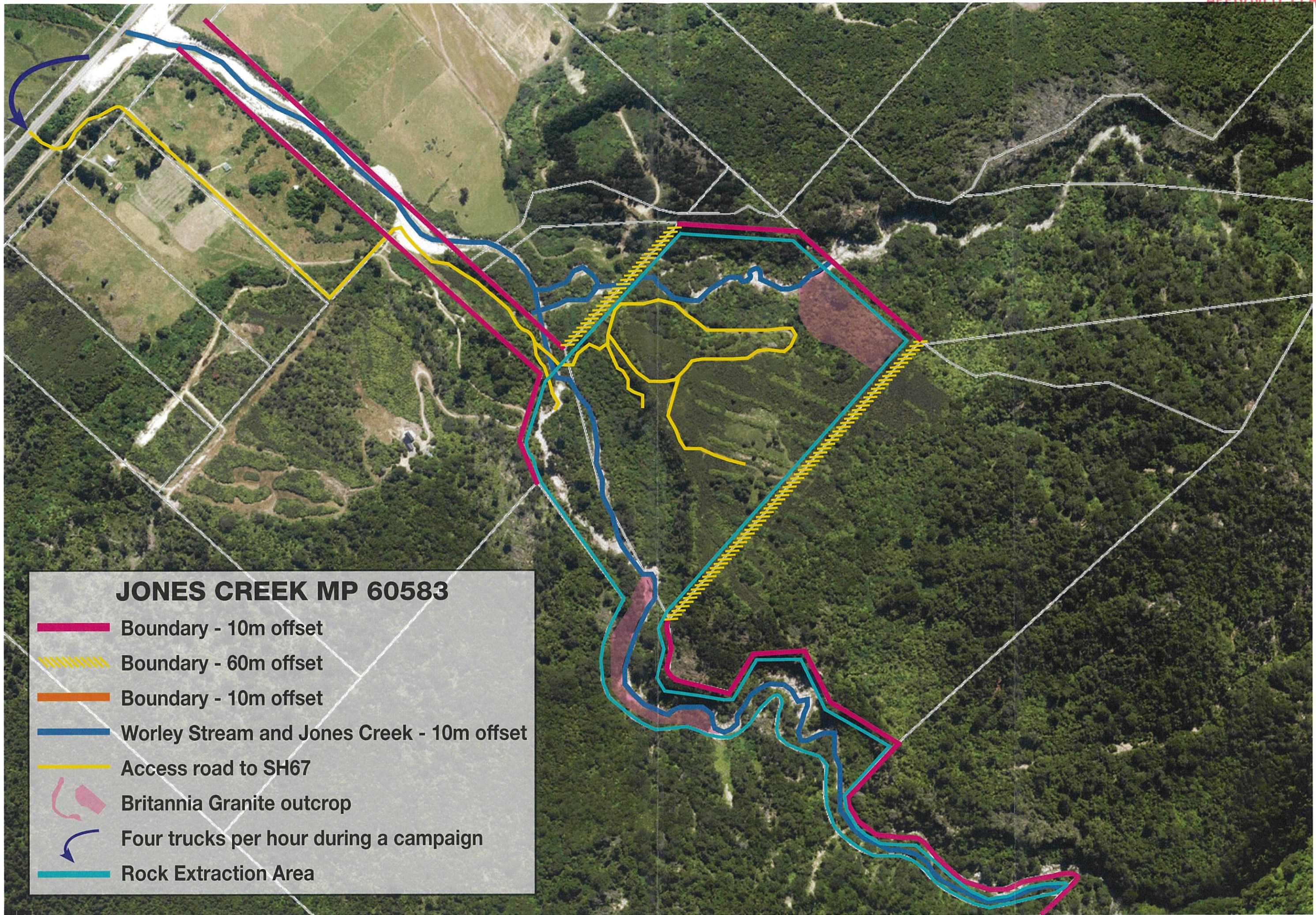
Policy 4.11.6.1 – *Compliance with approved codes of practice and national guidelines and standards shall be required for all activities involving the use, storage and transport of hazardous substance.*



JONES CREEK MP 60583

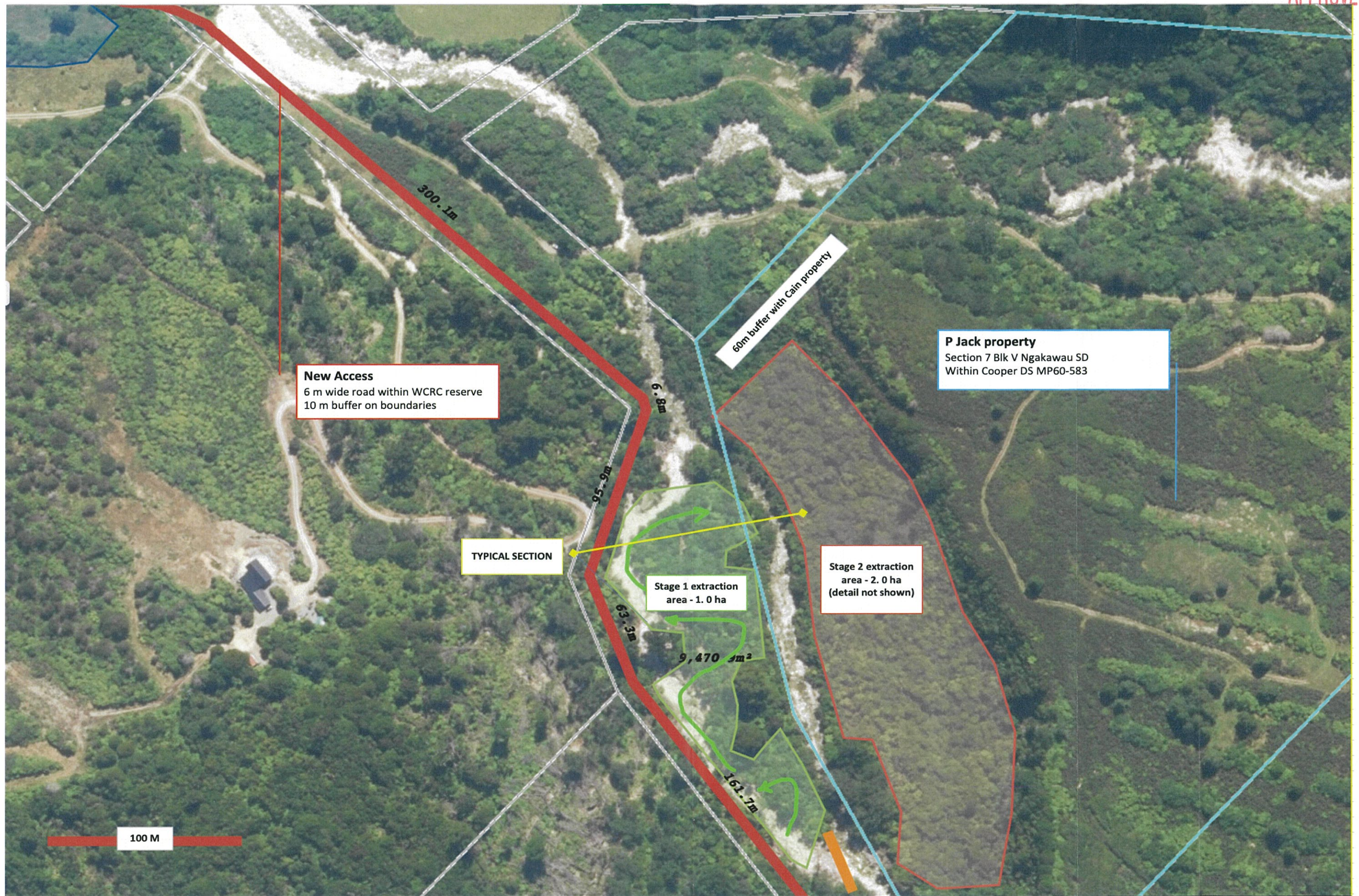


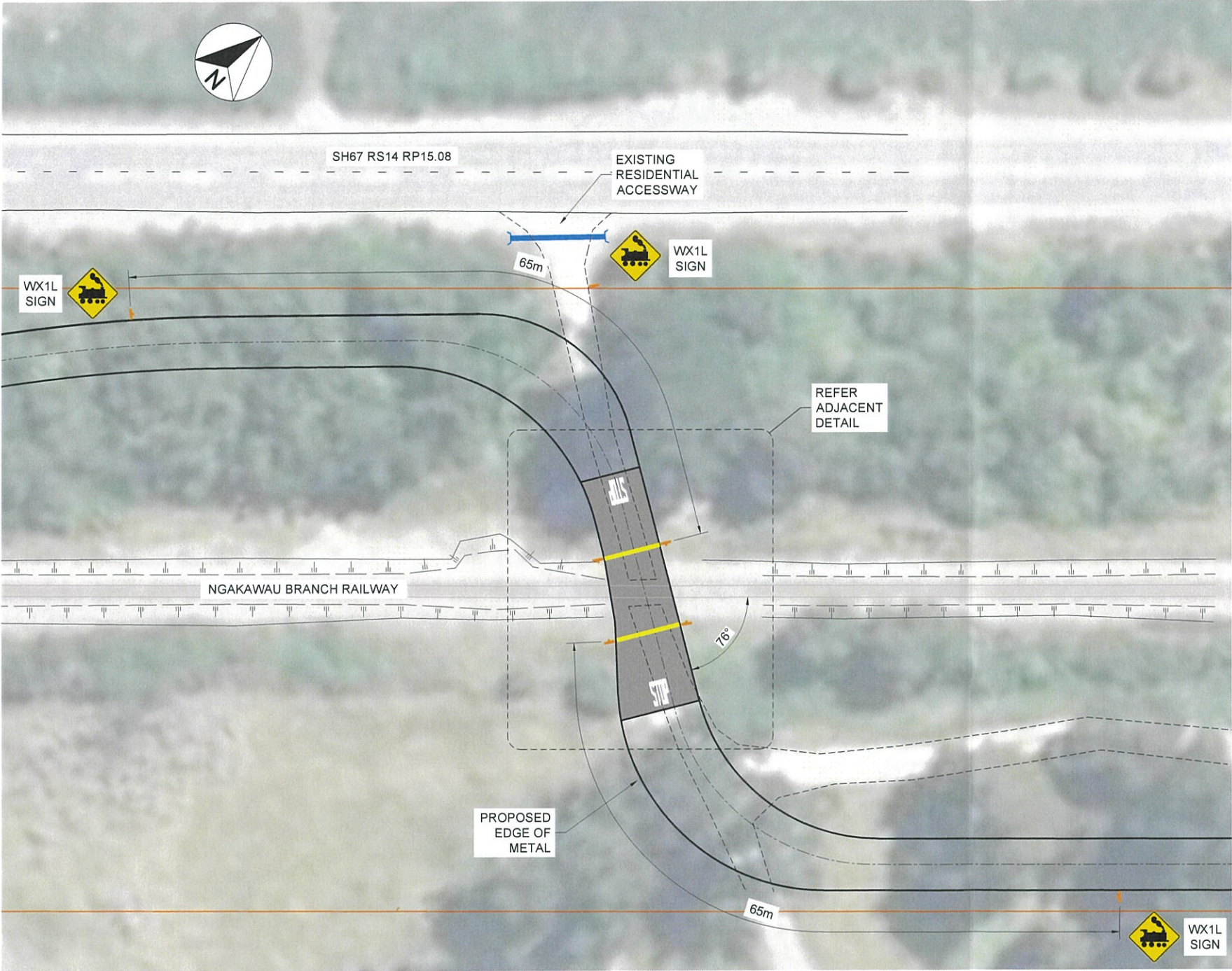
Rock lay down area (up to 10,000 M³)



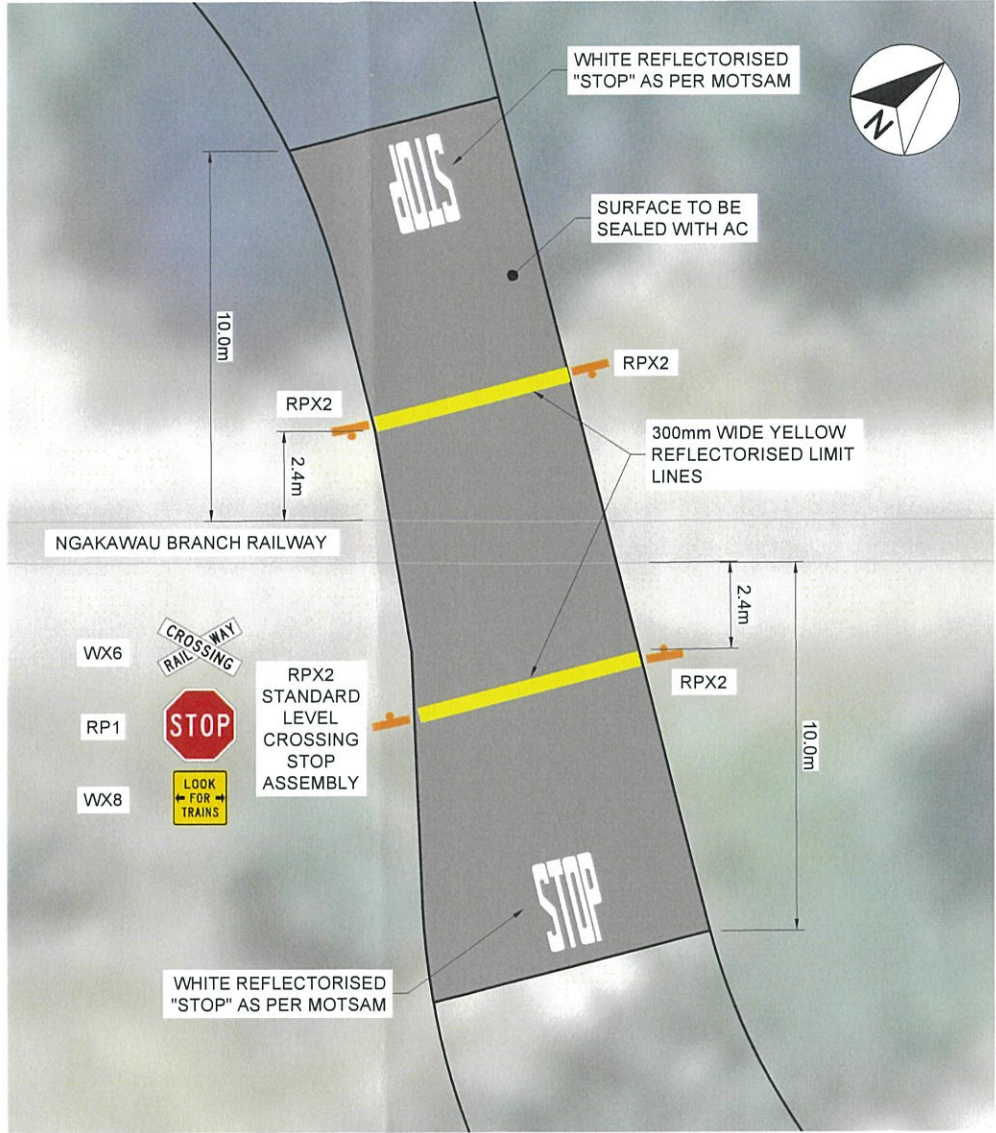
JONES CREEK MP 60583

- Boundary - 10m offset
- Boundary - 60m offset
- Boundary - 10m offset
- Worley Stream and Jones Creek - 10m offset
- Access road to SH67
- Britannia Granite outcrop
- Four trucks per hour during a campaign
- Rock Extraction Area



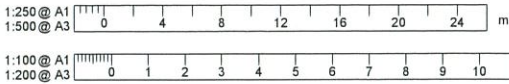


RAIL CROSSING LAYOUT PLAN
SCALE 1:250 (A1) 1:500 (A3)



RAIL CROSSING DETAIL PLAN
SCALE 1:100 (A1) 1:200 (A3)

- NOTES
- SIGN SIZES SHALL BE AS FOLLOWS:
RP1 "STOP SIGN" 675mm x 675mm
WX1 SIGN 600mm x 600mm
WX6 SIGN 1000mm x 200mm
WX8 SIGN 600mm x 600mm
 - REFER SHEET C12 FOR CROSS SECTION OF CROSSING



REVISION	AMENDMENT	APPROVED	DATE
A	PRELIMINARY	-	-
B	FOR APPROVAL	MDS	13.08.2020
C	REVISED FOR APPROVAL	MDS	26.08.2020

ROSCO
CONTRACTORS LTD

wsp
Greymouth Office
+64 3 769 9330

PO Box 365
Greymouth 7840
New Zealand

CIVIL

SCALES	ORIGINAL SIZE
1:250 (A1) 1:500 (A3)	A1
DRAWN	DESIGNED
A RALPH	A RALPH
DRAWING VERIFIED	DESIGN VERIFIED
K VAN DER MERWE	K VAN DER MERWE
APPROVED DATE	26.08.2020

FOR APPROVAL

PROJECT
ROSCO CONTRACTORS LTD
SH67 RS14 RP 15.08 BIRCHFIELD
JONES CREEK QUARRY ACCESS
TITLE
RAIL CROSSING LAYOUT AND DETAIL PLAN

WSP PROJECT NO. (SUB-PROJECT)
6-WROS2.01

SHEET NO
C11

REVISION
C

[illegible]

CIVIL

FOR APPROVAL

WSP PROJECT NO. (SUB-PROJECT)
6-WROS2.01

SHEET NO.	REVISION
C12	A

Richard Nichol's – Significant Tree Location Plan

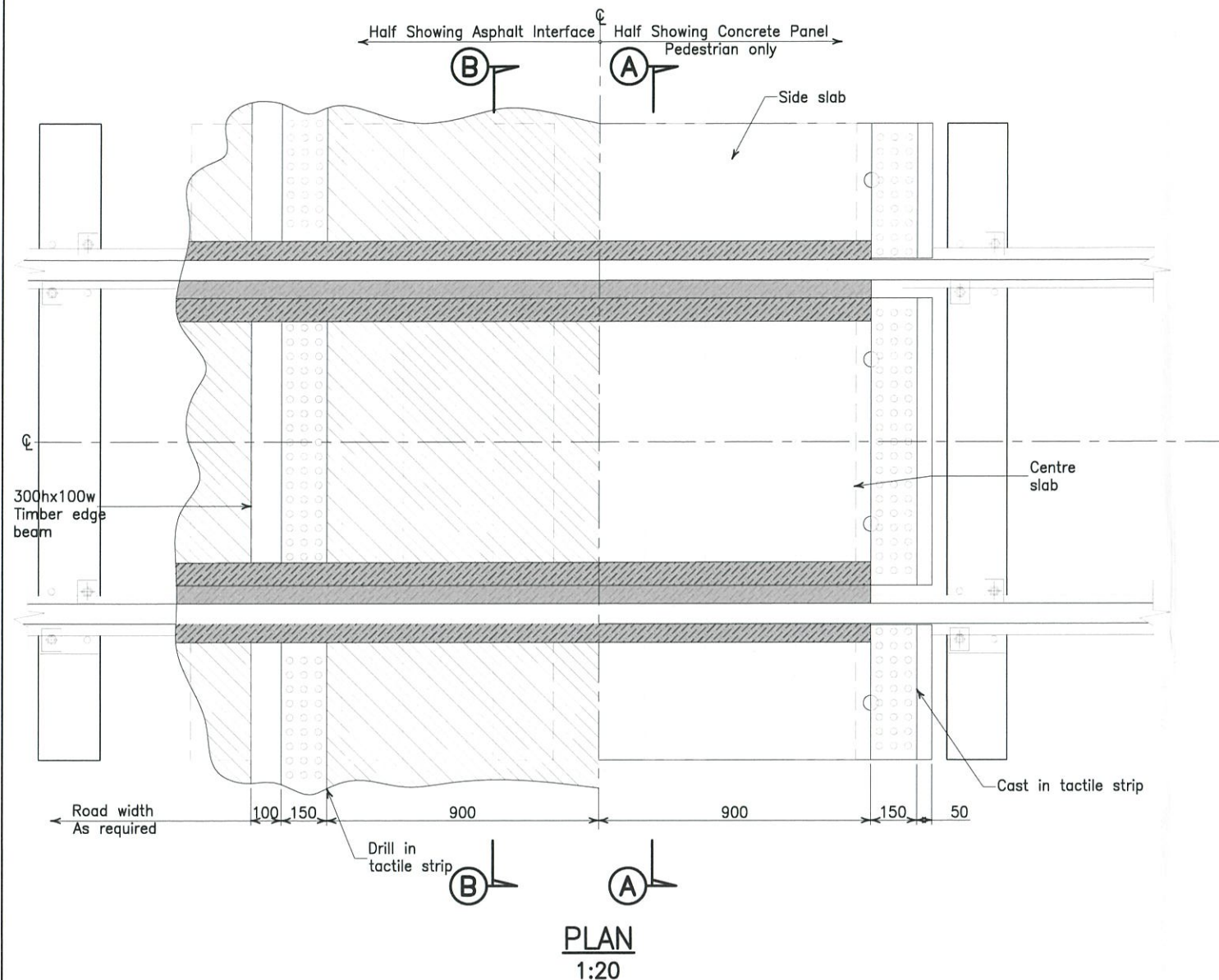


Figure 6. Notable trees within, or on the boundary of the mining permit area. The yellow flags show individual trees which are all northern rātā, except for the two flags shown on the elevated terrace. These are small groupings of kahikatea. The two green pins shown next to the active Jones Creek are patches of hard beech on the true left and true right of the waterway. These will largely fall within the 10m set-back from the stream-bed.



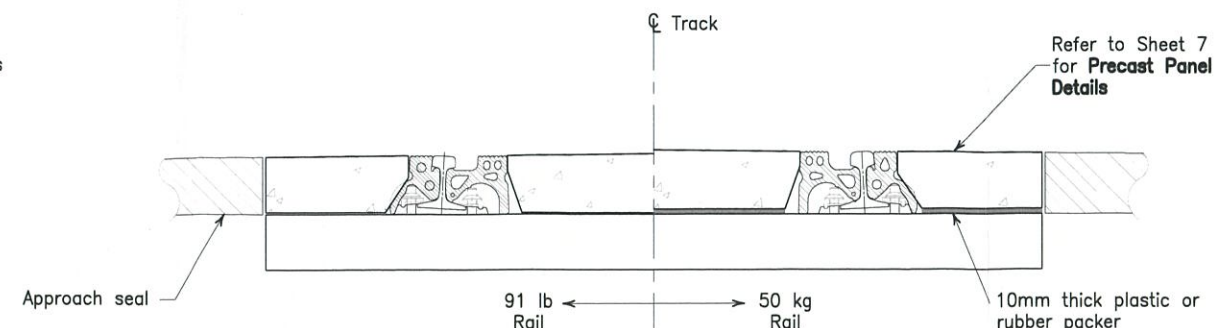
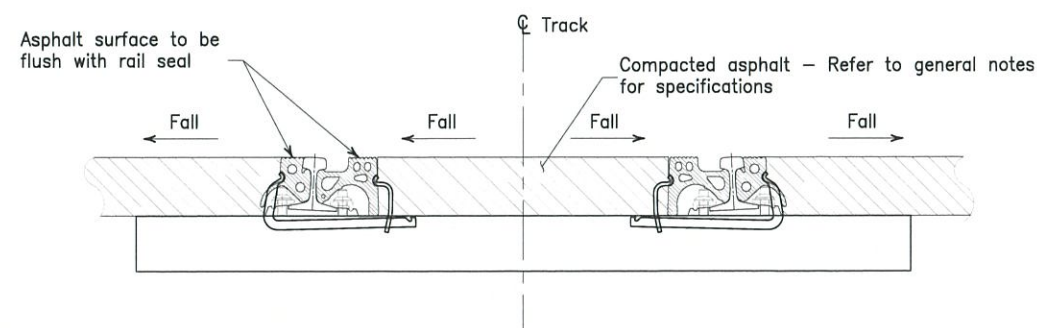
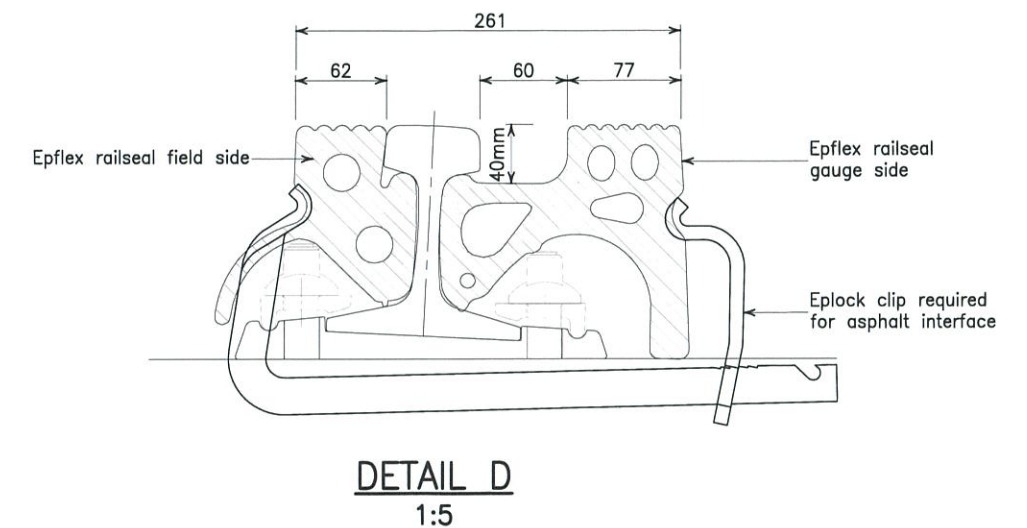
Figure 7. Notable trees within Worley catchment. The very large fallen northern rātā at the toe-slope of the steep bank is shown. Also apparent is the various stream channels within the catchment. At present the Worley occupies the southern most channel in the left of the photo

EPFLEX RAILSEAL - ROAD AND PEDESTRIAN CROSSINGS



Notes:

- Concrete panels only to be used on pedestrian crossings with 90° skew.
- Refer to Polycorp Drawing RA 4050-1-1B (50kg) and 4091-1-1B (911b) for Rail Seal Details.
- Central slab varies in width to the concrete panel option on S6. Refer Refer to S7 for details.
- Plastic packer to match sleeper dimensions and be adequately secured prior to panel installation.



FOR APPROVAL

Professional Head of Track

Date 13-02-15

FOR CONSTRUCTION

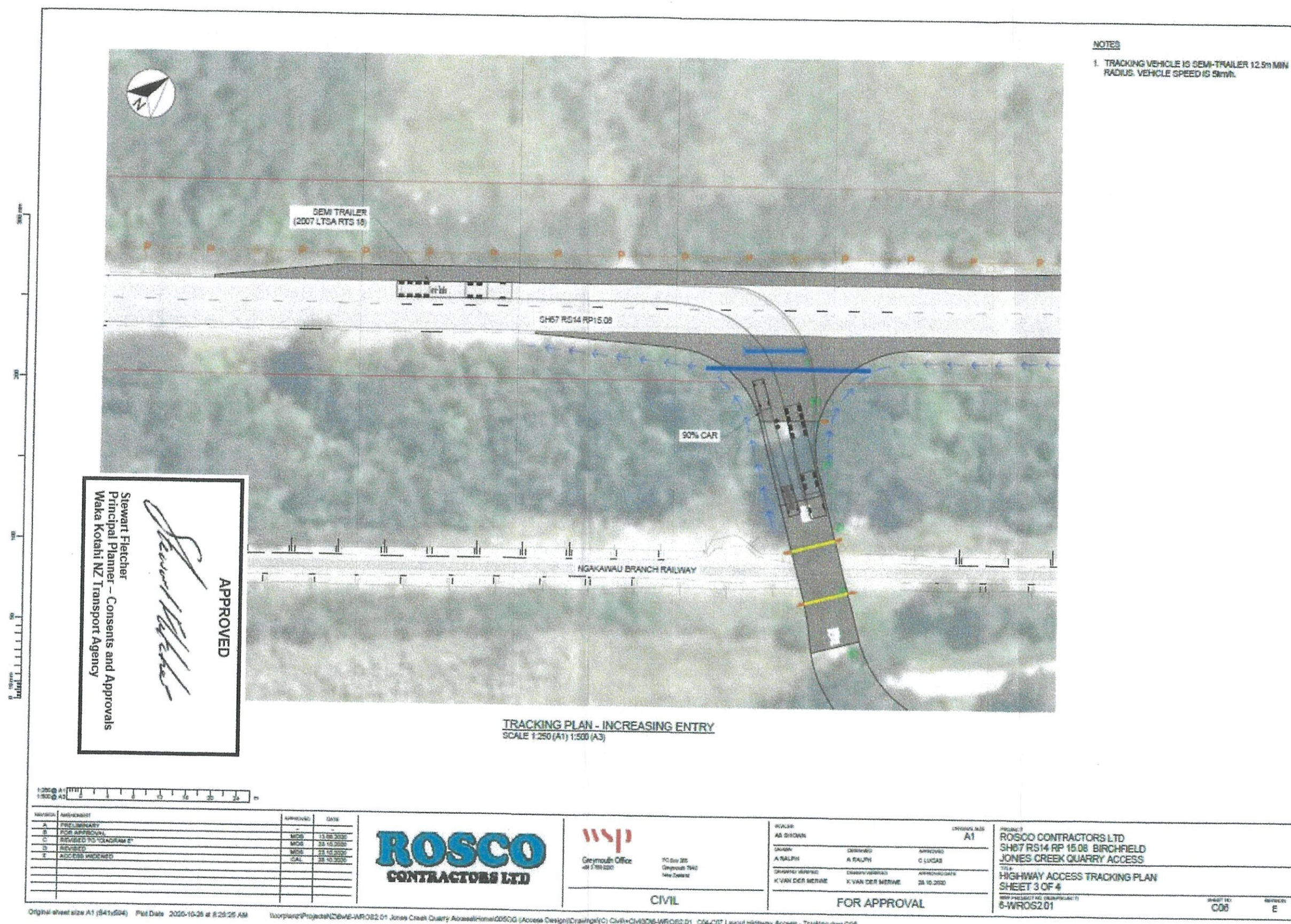
DO NOT SCALE FROM THIS DRAWING.
Copyright: "This drawing is and shall remain the property of New Zealand Railways Corporation (KiwiRail)"

REV	REVISION PARTICULARS	DRAWN	DATE	DESIGNED	INITIALS	DATE
0	PRELIMINARY	VSR	JUNE 2013	ML	ML	MAY 2013
1	FOR APPROVAL	VSR	JUNE 2013	JKA	JKA	MAY 2013
A	FOR CONSTRUCTION	JKA	NOV 2014	CHECKED	MS	OCT 2014
				APPROVED	MS	OCT 2014
				LINE: N/A	Km: N/A	
				SCALE: AS SHOWN		

ROAD AND PEDESTRIAN
LEVEL CROSSINGS
EPFLEX RAILSEAL

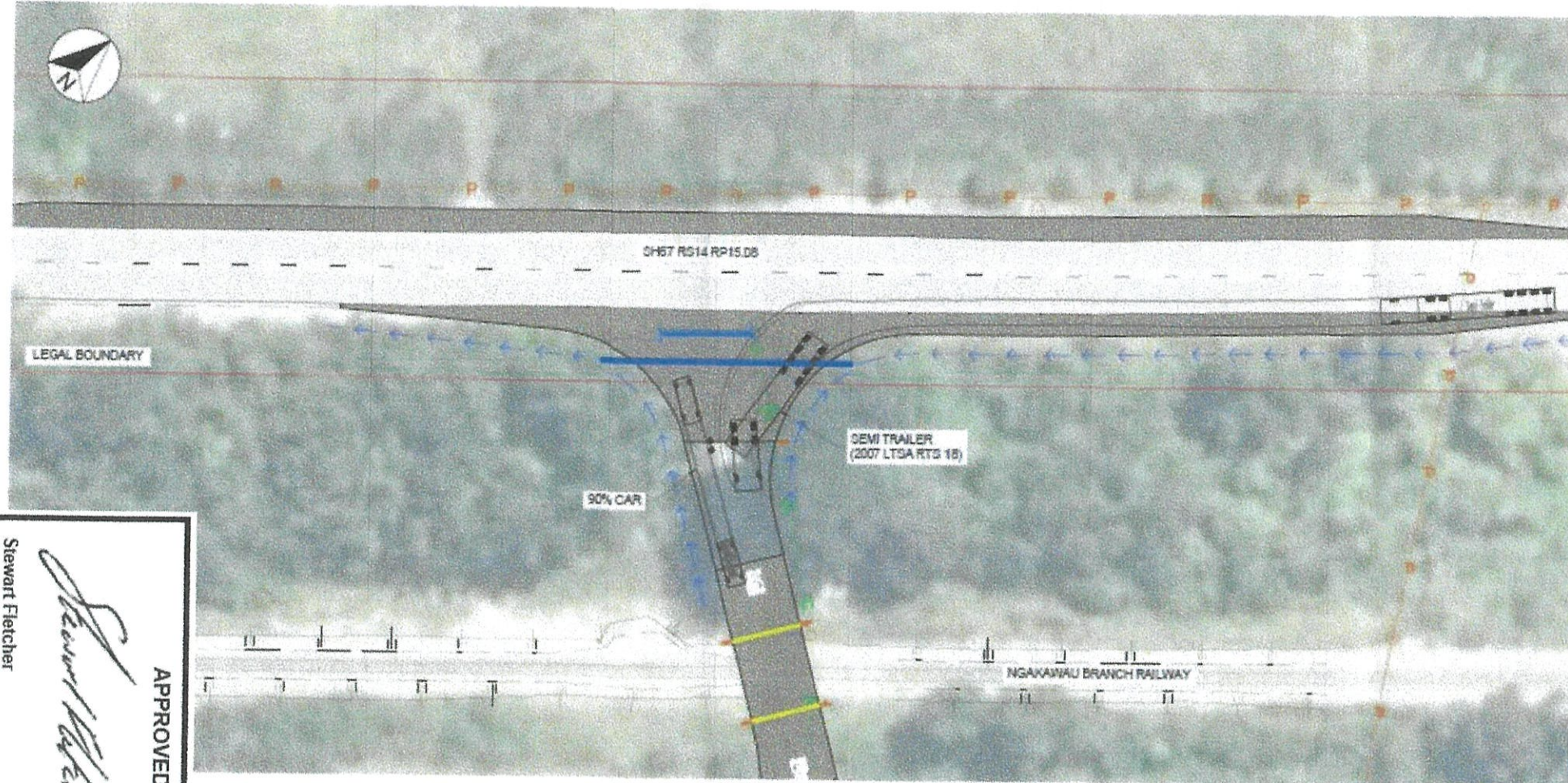
KiwiRail
Level 3, Slader Building, 8-14 Stanley St, Auckland 1010
Tel: 09 949 8111 / Fax: +64 9 497 0117

DRAWING No. 300 182 Original A3 Std S5 REV. No. A



NOTES

1. TRACKING VEHICLE IS SEMI-TRAILER 12.5m MIN RADIUS. VEHICLE SPEED IS 5km/h.



TRACKING PLAN - DECREASING ENTRY
SCALE 1:250 (A1) 1:500 (A3)

Stewart Fletcher
Principal Planner - Consents and Approvals
Waka Kotahi NZ Transport Agency

APPROVED

1:250 @ A1
1:500 @ A3

REVISION	AUTHOR	APPROVED	DATE
1	PRELIMINARY		
2	FOR APPROVAL	MOG	13.08.2020
3	REVISED TO "CANDORAN 8"	MOG	23.10.2020
4	REVISED	MOG	23.10.2020
5	ACCESS IMPROVED	CAL	28.10.2020

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CIVIL

REVISION	AS SHOWN	ORIGINAL
1	AS SHOWN	A1
2	AS SHOWN	A1
3	AS SHOWN	A1
4	AS SHOWN	A1
5	AS SHOWN	A1

FOR APPROVAL

PROJECT
ROSCO CONTRACTORS LTD
SH67 RS14 RP 15.08 BIRCHFIELD
JONES CREEK QUARRY ACCESS
TITLE
HIGHWAY ACCESS TRACKING PLAN
SHEET 1 OF 4
DRAWN BY: J. VAN DER MERWE
CHECKED BY: J. VAN DER MERWE
DATE: 28.10.2020
PROJECT NO: 6-WR062.01

REVISION
E