

LAND USE CONSENT RC185627

Authorised Activities

1. This consent authorises the following list of activities undertaken at 107 Dawsons Road and 220 Jones Road, Templeton, legally described as Rural Section 6475 and Rural Section 6324, Lot 1 Deposited Plan 4031, Rural Section 6342, Section 7 Survey Office Plan 510345, Rural Section 5381 and Section 6 Survey Office Plan 510345, at or about map reference NZTM2000 1555356mE, 5177132mN as shown on Plan CRC192408A, attached to and forming part of this resource consent:
 - a) Site preparation, topsoil stripping, overburden removal and storage;
 - b) Construction and maintenance of bunds and stockpiles;
 - c) Extraction, loading and transportation of material;
 - d) Processing of aggregates (including crushing and screening of aggregates);
 - e) Combustion products from the operation of 1.04 megawatt of diesel fired generation (up to four generators);
 - f) Stockpiling of aggregates;
 - g) Deposition of cleanfill;
 - h) Site rehabilitation; and
 - i) Movement of vehicles associated with the above activities
2. For the purposes of these consents:
 - a) *Quarry activities* means the activities listed in condition 1(a) to (i).
 - b) *Site preparation* means the activities listed in condition 1(a) and (b).
 - c) *Quarrying operations* means the activities listed in condition 1(c) to (i).
3. Except as required by consent conditions, the authorised activities must be undertaken in accordance with the information and plans submitted with the application submitted on 20 November 2018 and subsequent further information submitted on 12 March 2019 and 16 August 2019 and additional information presented to the Hearings Panel. Where there is any conflict between the application and the conditions, the conditions of consent prevail.
4. The authorised activities; and in particular *site preparation* activities including the perimeter bunding, landscape planting, perimeter walking track, public viewing platform, and establishment of the Central Processing and Stockpiling Area (CPSA); must be undertaken in accordance with the following figures and plans that are attached to and form part of this consent:
 - a) "Appendix A – Entrance Site diagram" and "Appendix B – Quarry Site diagram" attached to the Supplementary Statement of Donald Gordon Chittock on Behalf of Fulton Hogan Limited, Plans and Diagrams, dated 29 January 2020;
 - b) DCM Urban Design Limited figures all dated 5 December 2019 and referenced as follows:
 - i) Project no / drawing no: 2017_031 / 0100 Revision: A titled "Edge Treatments";
 - ii) Project no / drawing no: 2017_031 / 0101 Revision: A titled "Edge Treatments and Walking Track Route";
 - iii) Project no / drawing no: 2017_031 / 0102 Revision: A titled "Edge Treatment A – Curraghs Road";
 - iv) Project no / drawing no: 2017_031 / 0103 Revision: A titled "Edge Treatment B – Maddisons Road (Western Section)";
 - v) Project no / drawing no: 2017_031 / 0104 Revision: A titled "Edge Treatment C – 319 Maddisons Road (Eastern Edge)";

- vi) Project no / drawing no: 2017_031 / 0105 Revision: A titled “Edge Treatment D – Dawsons Road”;
 - vii) Project no / drawing no: 2017_031 / 0106 Revision: A titled “Edge Treatment E – Jones Road”;
 - viii) Project no / drawing no: 2017_031 / 0107 Revision: A titled “Dawsons Road / Jones Road 3 Way Roundabout”;
 - ix) Project no / drawing no: 2017_031 / 0108 Revision: A titled “Viewing Platform”;
 - x) Project no / drawing no: 2017_031 / 0109 Revision: A titled “Mitigation Measures During Operation”; and
- c) Lighting Plan prepared by Ideal Supplies Ltd. Lighting Design reference 3242 dated 5 August 2019.

Advice Note: *The Approved Consent Documentation has been entered into Council records as RC185627.*

Lapse and Expiry

- 5. Pursuant to section 125 of the Resource Management Act 1991 this consent will lapse five years after the date of this consent unless either the consent is given effect to, or the Council has granted an extension pursuant to section 125(1)(b) of the Act.
- 6. The term of consent is 35 years.

Supervision and Notification

- 7. The consent holder must appoint a representative(s) prior to the exercise of this resource consent, who will be the Council's principal contact person(s) in regard to matters relating to this consent.
- 8. All quarrying works must be overseen by a suitably qualified and experienced quarrying practitioner.

Advice Note: *Should any persons change during the term of this resource consent, the consent holder must inform the Team Leader – Compliance Environmental Services, Selwyn District Council (SDC Manager) and must also give written notice to the SDC Manager of the new person's name and how they can be contacted as soon as practicable.*

- 9. At least one month prior to commencement of *quarry activities* authorised by this consent, the consent holder or their agent must arrange and conduct a pre-construction site meeting with the SDC Manager. This must be arranged in conjunction with the parallel requirement of General Condition 6 of the regional consents. At a minimum, the following must be covered at the meeting:
 - a) Scheduling and staging of the works, including the proposed start date;
 - b) Responsibilities of all relevant parties;
 - c) Contact details for all relevant parties;
 - d) Expectations regarding communication between all relevant parties;
 - e) Site inspections; and
 - f) Confirmation that all relevant parties have copies of the contents of these consent documents and all associated management plans.

Quarry Management Plans

- 10. The following Quarry Management Plans must be submitted to the SDC Manager in electronic and hard copy form for certification at least 40 working days prior to the commencement of *quarry activities*:
 - a) Landscape Management Plan;
 - b) Transportation and Routing Management Plan;

- c) Roydon Quarry SH1/Dawsons Road Queue Management Plan;
 - d) Noise Management Plan; and
 - e) Quarry Rehabilitation Plan.
11. Subject to conditions 12 and 14, works to which a Management Plan relates must not commence until the consent holder has received written certification from the SDC Manager that the Management Plan adequately gives effect to the relevant Condition(s).
 12. If the consent holder has not received a response from the SDC Manager, within 20 working days of the date of submission under condition 10, the Management Plan will be deemed to be certified.
 13. If the SDC Manager's response is that they are not able to certify the Management Plan they must provide the consent holder with reasons and recommendations for changes to the Management Plan in writing. The consent holder must consider any reasons and recommendations of the SDC Manager and resubmit an amended Management Plan for certification.
 14. If the consent holder has not received a response from the SDC Manager within five working days of the date of resubmission under condition 13 above, the Management Plan will be deemed to be certified.
 15. Once certified a Management Plan may be varied by the consent holder. The certification process for any variation to the plan must follow the process outlined in conditions 11 to 14. The *quarry activities* subject to the variation must not commence until the variation has been certified by the Council. Any amendment must be consistent with the conditions of the resource consent and the original objectives or purpose stated within the Management Plan and any changes must be reported at the following Community Liaison Group meeting.
 16. This resource consent and a copy of the Council certified versions of all the management plans required by this consent must be kept on site at all times, and the consent holder must ensure all personnel are made aware of each plan's contents, where the plan relates to *quarry activities* that those personnel are responsible for. All certified management plans must also be publicly available on the consent holder's web site.

Works to be Completed Prior to Commencement of Quarry Operations

Site Preparation and Landscaping

17. Prior to extraction and processing of saleable aggregate commencing on the site, and for the duration of *quarrying operations*, site perimeter bunding, landscape planting and a perimeter walking track and viewing platform must be established in accordance with Visual Impact Assessment by DCM Urban, referenced as Appendix E of the Resource Consent Application report by Golder Associates dated November 2018, together with subsequent updates to this documentation in the 12 March 2019 and 16 August 2019 further information responses, and figures listed in conditions 4(b)(i) to (x).
18. The site bunding must include:
 - a) Establishment of 3 metres (m) high earth bunds around the site perimeter, with the exception of site accessways, with a 1m wide flat top. The bunds must have a profile with an outside slope no steeper than 1V:3H (one metre vertical to three metres horizontal) and must have a minimum base width of 15m;
 - b) Bunding at the heavy vehicle accessway entrance adjacent to Jones Road in general accordance with the figure listed in condition 4(b)(x), inclusive of any minor amendments to the design shown in the listed figure that are approved in writing by the SDC Manager;

- c) As soon as practicable following construction of the bunds, the bunds are to be sown with grass or hydro-seeded and thereafter watered regularly to ensure grass cover is established and maintained;
 - d) Construction of the bunds must occur during the months of May to October inclusive;
 - e) The grassed bunds must be mown regularly or grazed to give a tidy appearance;
 - f) The bunds must be watered when required to suppress potential dust, until a grass cover has been established. An 80 percent grass cover is to be maintained on earth bunds at all times during *quarrying operations*; and
 - g) To ensure the survival of the existing shelter belts listed in condition 19(a), bunds should not be constructed within 1m of the base of existing trees. Where no shelterbelt currently exists, bunding must be setback at least 4m from the site boundary in general accordance with the figures listed in conditions 4(b)(i), (iv) and (vi) to (x).
19. The landscape planting must include:
- a) The existing shelterbelts identified on the figure listed in condition 4(b)(i) along the site's road boundary with Curraghs Road, the common boundary with 319 Maddisons Road, and the road boundary adjacent to the dwelling at 107 Dawson's Road must be retained. Where there are gaps or where the vegetation is dying or in poor condition these gaps must be filled with similar tree species to achieve closures of these gaps;
 - b) An additional row of plantings must be established behind these existing shelter belts in accordance with the figures listed in conditions 4(b)(i), (iii) and (v). These rows of plantings must be established within the first planting season following the commencement of consent;
 - c) Along the site boundaries where there are no existing shelter belts, four rows of plantings must be established in accordance with the figures listed in conditions 4(b)(i), (iv) and (vi) to (x). The plantings must be established within the first planting season following the commencement of consent;
 - d) All plantings must be established on the outer side of the bunds;
 - e) Any plantings along the Jones Road boundary must be maintained at a height of 5m or less to limit shading of the road carriageway; and
 - f) All plantings required for this consent under this condition (conditions 19(a) to (e)) must be maintained for the duration of this consent. Any dead, diseased, or damaged plants must be replaced with plants of a similar species and as soon as practicable, having regard to planting seasons. Irrigation of the plantings must be provided for a minimum of 5 years.
20. The perimeter walking track and viewing platform must be provided within 12 months of completion of the bund and must include:
- a) A walking track in general accordance with the figures listed in conditions 4(b)(ii) to (vi) and (viii). The walking track must be established on the application site unless the Selwyn District Council agrees in writing that road reserve may be used for this purpose; and
 - b) A viewing platform in general accordance with the figure listed in condition 4(b)(ix). The consent holder may vary the location of this platform as the quarry develops provided that any varied location enables an unimpeded view of *quarrying operations*.

Landscape Management Plan

21. The consent holder must prepare a Landscape Management Plan for certification by the Selwyn District Council. The purpose of the Landscape Management Plan is to provide detail on how conditions 17 to 20 will be achieved for the duration of this consent. The Landscape Management Plan must, as a minimum, include:
- a) Details of all bunding and landscape planting to be established prior to *quarrying operations* commencing;

- b) Details of any bunding and landscape planting to be established after *quarrying operations* commence;
 - c) The methodology for establishing landscape planting required by (a) and (b);
 - d) Details of the Walking Track and Viewing Platform;
 - e) The maintenance requirements for all landscape features for the duration of this consent; and
 - f) The process for reviewing the Landscape Management Plan.
22. The consent holder must ensure that all *quarry activities* are undertaken in a general accordance with the certified Landscape Management Plan.

Site Access

23. Vehicle access must be provided from Jones Road, between Curraghs and Dawsons Road, for all quarry vehicles. This access point must be designed and constructed in general accordance with the recommendations of the Stantec ITA (Appendix C of the AEE) and the figure listed in condition 4(b)(x). The heavy vehicle access must be located at least 250m from the dwelling at 1090 Main South Road.
24. Roothing upgrades must be undertaken in general accordance with the Stantec ITA (Appendix C of the AEE). This must include provision of a roundabout to replace the existing Dawsons Road / Jones Road intersection and rooothing upgrades on Jones Road.
25. The rooothing improvements specified in conditions 23 and 24 must be constructed and be fully operational prior to the commencement of *quarrying operations*.
26. Prior to the commencement of the rooothing improvements specified in conditions 23 and 24, the consent holder must provide detailed designs of those improvements to Selwyn District Council's Transportation Asset Manager for technical review and certification.
27. The consent holder must arrange for a detailed design road safety audit to be carried out of the Jones Road / Dawsons Road roundabout required under condition 24. The audit must be carried out by a suitably qualified and experienced, independent traffic engineer with a copy provided to the SDC Manager. All safety improvements identified or recommended by the audit must be implemented by the consent holder.

Operational Conditions - General

28. The hours of operation and the only *quarry activities* that may be undertaken during those hours on specified days are limited to those set out in Table 1 below.

Table 1: Hours of quarry activities and other associated activities.

When			Allowable activities
At all times			Dust suppression, operation of weighbridge office activities, site security and light maintenance.
Daytime	Monday to Saturday, excluding Public Holidays.	7.00 am to 6.00 pm	Full range of <i>quarry activities</i> except processing of aggregates with mobile plant is limited to a maximum of 120 days per annum.
Early Morning		6.00 am to 7.00 am	Deposition of cleanfill, loading and transportation of material, and movement of vehicles associated with these activities. Site pre-start up including operational warm up of conveyors and machinery.
Evening	Monday to Saturday on up to 150 days per annum, excluding Public Holidays.	6.00 pm to 8.00 pm	Full range of <i>quarry activities</i> excluding processing of aggregates with mobile plant and deposition of cleanfill.
Night-time	Monday to Saturday on up to 30 nights per annum, excluding Public Holidays.	8.00 pm to 6.00 am.	Loading and transportation of material, and movement of vehicles associated with these activities.
Sunday	On up to 15 Sundays per annum, excluding Public Holidays.	7.00 am to 6.00 pm	

29. No processing of aggregates or transportation of material to or from the site can take place prior to the opening of the Christchurch Southern Motorway Stage 2 (CSM2) and the establishment of the bunds required by condition 17. Night time activities must not be undertaken during the first five years of *quarry activities*.
30. In addition to the limits imposed by condition 28 Table 1, heavy vehicle movements outside the hours of 6.00 am to 8.00 pm Monday to Saturday and all day on Sundays must not exceed 30 heavy vehicle movements per hour.

Excavation

31. All stockpile volumes must not exceed a maximum total volume of 200,000 cubic metres (m³) at any one time and must not be higher than the top height of the perimeter bunds.
32. *Quarrying operation* areas must be limited at any one time to the maximum area of open ground set out in Table 2 below. These areas exclude the sealed access road(s) and any site buildings.

Table 2: Open area limits for quarrying operations.

Purpose	Area (ha)
CPSA and mobile processing plant	7
Excavation in process	5
Fill and rehabilitation in process	5
Site roads – unsealed	5
Field conveyor and service lanes	4
Total active area	26

33. All roads within the CPSA and the access road into the site must be sealed in accordance with the figures listed in condition 4(a).

Advice Note: Also refer to conditions of CRC192408 and CRC192409.

Setbacks

34. All fixed and mobile processing plant and associated stockpiling must be set back at least 500m from the site boundaries and be located within the CPSA, as shown on Figure RC185627A and in general accordance with the figures listed in condition 4(a).
35. No *quarry activities* other than bund construction must occur within 200m of the dwellings at 319 Maddisons Road and 153 Curraghs Road, unless the prior written approval of the owners and occupiers of these dwellings is obtained. The consent holder must provide a copy of any written approvals to the SDC Manager and the Community Liaison Group prior to *quarry activities* in these areas commencing.

Keeping of Records

36. On an annual basis and at the conclusion of each stage of aggregate extraction, the consent holder must forward a progress report to the SDC Manager. The report must include:
- the volume of material extracted,
 - the amount and type of clean fill placed,
 - the area of extraction that remains open,
 - the number of daily heavy vehicle movements associated with *quarrying operations* during that stage, and
 - a plan showing the area which has been worked during the applicable period.

Traffic Management

37. Heavy vehicle movements must not exceed a maximum of 1,200 movements per day. For the avoidance of doubt this means 600 trucks entering the site each day and 600 trucks exiting each day. Heavy vehicle movements must not exceed more than 800 movements per day, as an average, over any consecutive 60 calendar day period. For the avoidance of doubt, this means 400 trucks entering the site each day and 400 trucks exiting each day.
38. The consent holder must take all practicable steps to ensure that heavy vehicles associated with *quarrying operations* do not use engine brakes within the quarry site, or while on Jones Road, or when approaching or leaving the quarry site.

39. Only heavy vehicles owned or contracted by the consent holder can access the site between the hours of 8.00 pm and 6.00 am. These vehicles shall not use engine brakes.
40. Heavy vehicle movements leaving or accessing the Roydon Quarry must use the direct route comprising Jones Road, Dawsons Road and State Highway 1 and must not travel on the following roads:
 - a) Jones Road west of the quarry access (between the access and Curraghs Road);
 - b) Dawsons Road north of Jones Road (between Jones Road and Maddisons Road); and
 - c) Jones Road east of Dawsons Road (between Dawsons Road and Railway Terrace).

Transportation Management and Routing Plan

41. The consent holder must prepare a Transportation Management and Routing Plan (TMRP) for certification by the SDC Manager. The purpose of TMRP is to provide detail on how all conditions relating to heavy vehicle movements will be achieved, and to ensure all heavy vehicle drivers are aware of the potential safety hazards present on roads in the vicinity of the quarry, including safe travel procedures across the Dawsons Road railway level crossing. *Quarrying operations* must not occur until Selwyn District Council has certified the TMRP in accordance with conditions 10 to 16.

The TMRP must include, as a minimum:

- a) Formal codes of practice for all drivers;
- b) Formal induction processes for all drivers;
- c) A requirement for non-consent holder-controlled heavy vehicle drivers accessing the quarry site to sign on to codes of practice;
- d) Appropriate onsite signage; and
- e) The process for review of the TMRP.

The consent holder must ensure that all *quarry activities* are undertaken in a general accordance with the certified TMRP.

Site Access

42. The internal site access road design must include a rumble strip and wheel wash to assist in removing muddy material from vehicle wheels before vehicles exit the site and must be in general accordance with the figures listed in conditions 4(a) and 4(b)(x).
43. To avoid material being deposited, dropped or tracked onto public roads from the quarry site, the following measures must be put in place for the heavy vehicle access road:
 - a) At least the first 100m of the access road inside the site boundary is to be inspected daily and sediment and debris vacuumed as required;
 - b) The edges of the sealed access road must be inspected and maintained, particularly where pot holes emerge. Before they are filled, pot holes must be coned off to avoid further damage and likelihood of transferring material to Jones Road;
 - c) Heavy vehicles must be inspected (which may be by camera) at the weighbridge with the purpose of identifying and minimising the risk of materials being deposited on nearby roads;
 - d) Loaded heavy vehicles arriving at the site must have their load covered; and
 - e) Heavy vehicles with aggregate or other quarry material leaving the site must either cover their load or have the load dampened with water spray before leaving the site.
44. The length of Jones Road from Dawsons Road to the quarry site's heavy vehicle entrance must be inspected daily by the consent holder to assess if sediment has been deposited on the road from

vehicles travelling to or from the quarry site. Any sediment deposited on the road must be removed that same day. A record of when road sediment removal has taken place must be retained and made available to the SDC Manager on request and otherwise provided to the SDC Manager annually.

Roydon Quarry, SH1 / Dawsons Road Queue Management Plan

45. Within three months of the date of commencement of this consent the consent holder must submit a Roydon Quarry, SH1 / Dawsons Road Queue Management Plan ('the QMP') to the SDC Manager for certification.
46. The QMP required by condition 45 must be prepared by a suitably qualified, independent and experienced traffic engineer and must be in general accordance with the draft Roydon Quarry, SH1 / Dawsons Road Queue Management Plan attached as Appendix X prepared by Stantec: Version E January 2020.
47. The purpose of the QMP is to ensure that *quarrying operations* do not result in an increase in the safety risk at the SH1 / Dawsons Road roundabout.
48. Safety at the SH1 / Dawsons Road roundabout must be assessed in accordance with a fit for purpose Safety Risk Assessment carried out in accordance with the approach set out in Section 2 of the draft Roydon Quarry, SH1 / Dawsons Road Queue Management Plan dated 28 January 2020 or any subsequent amendment made to the QMP. The QMP must include details relating to:
 - a) The monitoring required to identify any changes in the operation and safety risk at the SH1 / Dawsons Road roundabout arising from the impact of *quarrying operations* on northbound traffic queuing back from the railway level crossing into the roundabout, and southbound traffic on Dawsons Road queuing back from SH1 towards the railway, including:
 - i) baseline traffic monitoring (required to be undertaken prior to the *quarrying operations* commencing);
 - ii) monitoring after the *quarrying operations* commence; and
 - iii) where required, repeating monitoring of (i) and (ii) above;
 - b) How it will be determined whether mitigation is required and the methods required to address the assessed safety risk arising from the *quarrying operations*;
 - c) The procedures and timeframes for the installation of the mitigation measures (if any);
 - d) How any required mitigation will be monitored for effectiveness and any ongoing review requirements for the QMP; and
 - e) Reporting requirements.
49. Prior to submitting the Final QMP to the SDC Manager for certification, the consent holder must provide the New Zealand Transport Agency, KiwiRail, Selwyn District Council and Christchurch City Council with an opportunity to participate in a collaborative workshop with the consent holder to discuss a draft of the QMP ('Draft QMP').
50. If New Zealand Transport Agency, KiwiRail, Christchurch City Council and/or Selwyn District Council agree to participate in a workshop:
 - a) The consent holder must provide a copy of the Draft QMP to the participating organisations at least 10 days before the workshop;
 - b) The consent holder must circulate a record of the workshop discussions to the participating organisations within 5 working days of the completion of the workshop; and
 - c) The participating organisations must be given an opportunity to provide written feedback to the consent holder on the Draft QMP within 15 working days of the completion of the workshop.

51. If New Zealand Transport Agency, Kiwi Rail, Christchurch City Council and/or Selwyn District Council decline the opportunity to participate in a collaborative workshop, the consent holder must provide a copy of the Draft QMP to the declining organisation and they must be given 15 working days to provide written feedback to the consent holder on its content.
52. The consent holder must ensure that all written feedback received from the New Zealand Transport Agency, Kiwi Rail, Christchurch City Council and/or Selwyn District Council on the Draft QMP is provided to the SDC Manager when the QMP is submitted for certification, along with a clear explanation of where any comment made on the Draft QMP has or has not been incorporated into the QMP and the reasons why.
53. The consent holder must ensure that a copy of the certified QMP is provided to the Community Liaison Group at the next scheduled meeting.
54. Once the QMP is certified, the consent holder must implement the QMP.
55. Once the QMP is certified, the consent holder must report to the New Zealand Transport Agency, Kiwi Rail, Christchurch City Council, Selwyn District Council, and the Community Liaison Group at the following times:
 - a) At the completion of baseline monitoring and prior to the *quarrying operations* commencing;
 - b) Six months after *quarrying operations* commence; and
 - c) Annually thereafter for a period of three years, or until the New Zealand Transport Agency and KiwiRail agree no further monitoring and mitigation is needed to achieve the purpose set out in condition 47, whichever is earlier.
 Each report must contain the following details:
 - a) A description of the monitoring undertaken during the reporting period and analysis of the results;
 - b) A description of any mitigation measures implemented during the reporting period, or planned for the following reporting period; and
 - c) Any amendments identified as being necessary to the QMP for the following reporting period.
56. The QMP is to be an adaptive document. It may be updated by the consent holder at any time provided that prior to doing so further consultation and collaboration occurs with the New Zealand Transport Agency and KiwiRail. Any changes made to the QMP must be consistent with achieving the purpose set out within condition 47. Any updated provisions must not be implemented until the updated QMP has been re-certified by the SDC Manager.

Noise

57. All *quarrying operations* on the site, measured in accordance with the provisions of NZS 6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS 6802:2008 "Acoustics – Environmental Noise", must not exceed the following noise limits at any point within any other property, during the following times:
 - a) Daytime 7.00 am to 6.00 pm 55 dB LAeq;
 - b) Evening 6.00 pm to 8.00 pm 50 dB LAeq; and
 - c) Night 8.00 pm to 7.00 am 45 dB LAeq and 70 dB L_{max}.
58. The noise limits in condition 57 do not apply to vehicle movements on the internal site accessway within 250m of Jones Road.
59. *Site preparation* 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.

60. Should audible vehicle reversing alarms be required on quarry-based equipment or trucks owned by the consent holder, only broadband noise alarms must be used.
61. Between the hours of 8.00pm and 6.00am, the consent holder must not allow heavy vehicles or quarry-based equipment to be used on the site which use tonal reversing alarms. (i.e. machinery and trucks must use broadband or hiss beepers or similar, or alternatively flashing lights, which meet workplace safety requirements).

Noise Management Plan

62. The consent holder must prepare a Noise Management Plan (NMP) for certification by the SDC Manager. The purpose of the NMP is to detail the methods that will be used to comply with conditions 57 to 61 and to manage noise effects to an acceptable level.

As a minimum the NMP must include:

- a) The proposed measures to be used to control noise generated by *quarry activities*;
 - b) The role of the consent holder’s staff in the management of noise and the nomination of specific staff member(s) responsible for overseeing the implementation and upkeep of the NMP;
 - c) The procedures that will be followed by the consent holder should any complaint in relation to noise be received; and
 - d) A procedure for advising nearby properties of any proposed Sunday or night time activities (8.00 pm to 6.00 am); and
 - e) The process for review of the NMP.
63. Noise emissions from *quarry activities* must be measured and assessed in accordance with condition 57 by a suitably qualified and experienced acoustic consultant at the following times:
 - a) Once within the first 12 months following the commencement of *quarrying operations*;
 - b) When excavation initially advances to within 400m of either of the dwellings at 319 Maddisons or 151 Curraghs Road and thereafter when excavation initially advances to within 250 m of either of those dwellings; and
 - c) Once when rehabilitation activities are initially undertaken within 400m of the dwellings at 319 Maddisons or 151 Curraghs Road and thereafter when excavation initially advances to within 250m of either of those dwellings.

On each occasion, a report describing the measurement results and compliance or otherwise with the limits in condition 57 must be submitted to the SDC Manager within 20 working days of completion of the noise measurements.

Lighting and Glare

64. Lighting from the quarry site must be directed downwards and must have a maximum light spill not exceeding 3-lux spill on to any part of any other adjoining property, in accordance with Rule 9.18.1.2 contained in Part C of the Rural Volume of the Selwyn District Plan.
65. All lighting for the site must be designed and installed by an appropriate and recognised lighting specialist, in general accordance with the plan listed in condition 4(c).

Airport Operations and Bird Strike

66. *Quarry activities* must not involve feeding or attracting birds to site. The quarry must be managed to

ensure that any surface ponding drains freely and rehabilitated areas must be designed and finished to be free draining surfaces, as provided for in the Draft Quarry Rehabilitation Plan (Appendix G of the AEE).

67. The contact details for the consent holder representative required under condition 7 of this consent must be provided to Christchurch International Airport Limited (CIAL) prior to *quarrying operations* commencing. If the consent holder representative should change during the duration of this consent, the consent holder must advise CIAL of the contact details for the new consent holder representative.

Advice Note. *The purpose of condition 67 is to enable prompt contact with the consent holder to be made by CIAL for any issues that may arise on-site that need urgent action to prevent conflict with airport operations, including but not limited to dust generation and glare from quarrying operations and bird management.*

68. The consent holder must allow CIAL's planning staff and/or Wildlife Management Officer to arrange visits to the quarry site by Ornithological or Pest Management Consultants and their staff for the purposes of pest bird monitoring or management and to assess and make recommendations that relate to the mitigation of bird strike risk.
69. Solid waste resulting from *quarrying operations* must be disposed of to an approved solid waste facility by an appropriately licenced operator. Solid waste must be held in wheelie bins or similar appropriate containers designed to avoid attracting birds or rodents, to shelter the contents from rainfall, and to secure the waste in the event of windy conditions.
70. The consent holder must provide CIAL with an opportunity to participate in the development and review of management plans relevant to bird strike and dust. The consent holder must also consult CIAL about the final land use to be implemented after site rehabilitation is completed to enable CIAL to provide input on possible risks to airport operations.

Hazardous Substances

71. The only hazardous substances that can be stored on site are fuel and lubricants for quarry plant and machinery.
72. The total maximum volume of diesel stored on site must not exceed 15,000 litres (L). Diesel storage must have a Stationary Container Certificate and the storage of all hazardous substances on site must be in accordance with the requirements of the Hazardous Substances and New Organisms Act 1996.

Demolition

73. Prior to any demolition of buildings on the site, asbestos surveys must be undertaken, and any identified or suspected asbestos containing material (ACM) must be removed. All asbestos work must be undertaken by a suitably licenced person(s) in accordance with the Health and Safety at Work (Asbestos) Regulations 2016 and the WorkSafe New Zealand Approved Code of Practice: Management and Removal of Asbestos 2016. The results of the asbestos survey must be used to determine if asbestos investigation of soil is required around the periphery of the dwellings.
74. When any buildings on the site have been vacated, prior to their demolition, the investigation of lead-based paint in soils around the periphery of the buildings must be undertaken and reported to SDC Manager.

Remediation of Contaminated Material

75. The handling and reuse of contaminated material identified in the "Preliminary and Detailed Site Investigation", prepared by Golder Associates (NZ) Limited dated November 2018 and submitted with

the application (Appendix H of the AEE) must be undertaken in accordance with a Remediation Action Plan (RAP). The RAP must be prepared and submitted to the SDC Manager and the Canterbury Regional Council (CRC) prior to the remediation works commencing.

76. The material identified in condition 75 may be reused in the construction of earth bunds on the site or for rehabilitation of the base of the quarry excavation only if it is identified as being suitable for that purpose in accordance with the RAP prepared under condition 75.
77. The excavation of the material identified in conditions 75 and 76 must be supervised and validated by a Suitably Qualified and Experienced Practitioner (SQEP) as defined in the NES Contaminated Land Users' Guide (MfE 2012). On completion of the works, the consent holder must submit a site validation report to the SDC Manager.
78. Prior to undertaking *quarrying activities* in identified HAIL locations, the consent holder must remove any contaminated soils. Validation sampling of the underlying soils must be completed, to determine the land can be suitably reinstated for rural residential land use, upon the completion of *quarrying activities*.
79. An unexpected discovery protocol must be prepared to address the potential for uncovering of contaminated soil/materials during earthworks and extraction, and must be applicable to all *quarry activities*.
80. If soils are found that have visible staining, odours and/or other conditions that indicate potential soil contamination, then work must cease and all workers must vacate the immediate area, notify the site manager and ensure that the local authorities are informed (via Selwyn District Council and the Environment Canterbury pollution hotline on 0800 76 55 88). No excavation of such soil must occur without advice from a SQEP on land contamination and the agreement of the SDC and CRC.

Rehabilitation

81. Each stage of aggregate extraction, with the exception of any active haul roads, must be rehabilitated within six months of the completion of clean filling. Rehabilitation must include, but is not limited to:
 - a) Reshaping the clean filled areas;
 - b) Spreading topsoil over the reshaped clean fill to a minimum depth of 300 millimetres (mm);
 - c) Sowing the top soiled areas with a suitable grass species or another suitable vegetative cover; or
 - d) If rehabilitation occurs outside of spring or autumn, covering the top soiled area with mulch or another form of material to suppress dust from the area until it is appropriate to sow grass or another suitable vegetative cover; and
 - e) Undertaking all reasonably practicable measures to prevent dust emissions from the rehabilitated area, including but not limited to watering of exposed soil.
82. All rehabilitated surfaces must be designed and constructed to be free draining and the final rehabilitated ground level must not be above the ground level that existed prior to *quarrying operations* commencing.
83. Rehabilitated areas must be monitored and maintained to ensure they are free draining and have a suitable grass or other vegetative cover for a period of 24 months following the completion of rehabilitation.
84. The final internal slopes of the quarry must vary between 1V:3H and 1V:6H with an irregular form to avoid a linear, uniform appearance of the slopes and to create a more natural appearance.
85. Prior to the expiry of this consent the perimeter bunds are to be removed as part of the rehabilitation works. The edge treatment plantings must remain until grass cover has established over any disturbed

land.

86. At least one month prior to the commencement of any *quarry activities*, the consent holder must submit a Quarry Rehabilitation Plan (QRP) to the SDC Manager for certification. The purpose of the QRP is to detail:
 - a) The progressive rehabilitation of the site through the stages of extraction; and
 - b) The methods that will be used to comply with conditions 81 to 85.
87. The QRP must be in general accordance with the draft QRP submitted to the Selwyn District Council in November 2018 and, as a minimum, must include the following:
 - a) A description of the proposed rehabilitation works including:
 - i) The proposed final landform;
 - ii) Whether cleanfill or other material will be used in the rehabilitation;
 - iii) The type of land uses that the rehabilitated quarry could support following rehabilitation;
 - iv) The patterns of surface drainage and any subsoil drains; and
 - v) Any landscaping and planting;
 - b) A program and timescales for progressive rehabilitation;
 - c) Measures proposed to mitigate any potential adverse effects arising from undertaking rehabilitation;
 - d) Measures to mitigate potential ongoing adverse effects on the stability of adjoining land and its susceptibility to subsidence and erosion; and
 - e) A process for review of the QRP.
88. Rehabilitation of the site must be undertaken in accordance with the certified QRP and implemented at the completion of each stage of quarry activities.
89. Hours of operation for rehabilitation work must comply with condition 28 Table 1.
90. The QRP must be reviewed by the consent holder annually to assess the need for it to be updated. If the QRP is to be updated the consent holder must consider the following matters:
 - a) The rehabilitation activities undertaken during the previous 12 months;
 - b) Areas of the site to be quarried (aggregate extraction) over the next 12 months;
 - c) Plans for earthworks, including overburden stripping and disposal, over the next 12 months; and
 - d) Areas of vegetation removed and areas planted during the previous 12 months.
91. In addition to QRP updates undertaken under condition 90, an update must also be undertaken if:
 - a) There is a fundamental shift in *quarrying operations* relative to those contemplated at the time the QRP was last reviewed (e.g. an unscheduled move to a new area); or
 - b) A significant environmental incident occurs (e.g. flooding on the site causing damage to assets).

Consultation

92. The consent holder must establish a Community Liaison Group (CLG) in accordance with the following requirements:
 - a) The purpose of the CLG must include, but not be limited to, the following:
 - i) To engage on an on-going and regular basis about matters associated with the *quarrying operations*;
 - ii) To promote the flow of information between the local community and the consent holder so as to, wherever possible, address any issues that may arise; and

- iii) To discuss the results of monitoring and any matters that may arise as a result of the monitoring.
- b) The CLG must initially comprise up to two representatives of the consent holder and the consent holder must invite one representative of the Selwyn District Council, one representative of the Canterbury Regional Council, one representative of the Templeton Residents Association (TRA), one representative of the Weedon's Residents Association (WRA), one representative of the New Zealand Motor Caravan Association Incorporated, one representative of Southern Woods Nursery, and representatives of the relevant Kaitiaki Rūnanga.

Advice Note: *This condition only governs initial membership for the purposes of convening the first meeting of the CLG. On-going membership will be determined by the CLG.*

- c) The consent holder must ensure that members of the CLG are provided with the opportunity and facilities to meet:
 - i) At least 30 working days prior to the start of any *site preparation* activities; and
 - ii) Not less frequently than quarterly during the first year of *quarrying operations* and biannually thereafter, unless all members of the CLG agree there is no need for a meeting;
 - d) If the consent holder, in progressing any element of the quarry, wishes to call a meeting of the CLG to obtain community input, the meeting regime may be shifted to accommodate such a request;
 - e) The time, date and venue of proposed meetings must be notified to members of the CLG;
 - f) Minutes of the CLG meetings must be kept by the consent holder and be made publicly available; and
 - g) Members of the CLG must be provided with copies of any draft management plan and be invited to provide written comments on the contents of the plan within 10 working days. In conjunction with submitting a management plan for certification to SDC or CRC, the consent holder must report on how any feedback provided by CLG members has been incorporated or not into each management plan.
93. The consent holder must engage an independent chairperson to facilitate CLG meetings.
94. The consent holder must meet the reasonable administrative costs of the CLG meetings (e.g. meeting invitations; meeting venue; preparation of meeting minutes) and facilitation of meetings by an independent chair.

Advice Note: *In the event that it is not possible to establish a CLG or convene meetings through lack of interest or participation from the local community, then such failure to do so will not be deemed a breach of these conditions. Should the local community wish to re-establish meetings after a period of inactivity then the conditions above shall continue to apply.*

Accidental Discovery Protocol

95. Immediately following the discovery of material suspected to be a taonga, kōiwi or Māori archaeological site, the following steps must be taken:
- a) All work in the vicinity of the discovery must cease and the SDC Manager advised;
 - b) Immediate steps must be taken to secure the site to ensure the archaeological material is not further disturbed;
 - i) The consent holder must notify the Kaitiaki Rūnanga and the Area Archaeologist Heritage New Zealand Pouhere Taonga (in the case of kōiwi (human remains) the New Zealand Police must also be notified).

Advice Note: *The Kaitiaki Rūnanga and HNZPT will jointly appoint a qualified archaeologist who will confirm the nature of the accidentally discovered material.*

- ii) If the material is confirmed as being archaeological, the consent holder must ensure that an archaeological assessment is carried out by a qualified archaeologist, and if appropriate, an archaeological authority is obtained from HNZPT before work resumes (as per the Heritage New Zealand Pouhere Taonga Act 2014).
- iii) The consent holder must consult the Kaitiaki Rūnanga on any matters of tikanga (protocol) that are required in relation to the discovery and prior to the commencement of any investigation.
- iv) 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 Kaitiaki Rūnanga.
- v) Works in the site area must not recommence until authorised by the Kaitiaki Rūnanga, the Heritage New Zealand Pouhere Taonga (and the NZ Police in the case of kōiwi) to ensure that all statutory and cultural requirements have been met.
- vi) The consent holder must notify SDC prior to the recommencement of work, and copies of all relevant authorisations must be provided to the SDC Manager.

Advice Notes: *It is expected that all parties will work towards work recommencing in the shortest possible time frame while ensuring that any archaeological sites discovered are protected until as much information as practicable is gained and a decision regarding their appropriate 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.*

Although bound to uphold the requirements of the Protected Objects Act 1975, the consent holder recognises the relationship between Ngāi Tahu whānui, including its Kaitiaki Rūnanga, and any taonga (Māori artefacts) that may be discovered.

Reporting and Review

- 96. The consent holder must maintain a Complaints Register. The Complaints Register must include details of when a complaint was received, the steps taken by the consent holder to investigate the complaint, and any steps taken to address the issue(s) raised. The complaints register must be provided to the SDC Manager annually, and otherwise must be available to the SDC Manager on request.
- 97. Records of all staff training relevant to compliance with conditions of this consent must be retained on site and provided to the SDC Manager upon request.
- 98. The Selwyn District Council may, during the month of May or November each year, review any or all of the conditions of the consent pursuant to section 128 of the Resource Management Act 1991 for all or any of the following purposes:
 - a) To deal with any adverse effect on the environment which may arise from the exercise of the consent that was not foreseen at the time of granting of the consent, and which is therefore more appropriate to deal with at a later stage; and/or
 - b) To require the consent holder to adopt the best practical option to remove, remediate or reduce any adverse effects on the environment resulting from the activity; and/or
 - c) To review the noise limits and any adverse effects resulting from heavy vehicle traffic associated with *quarry activities*, including measures to manage heavy vehicle traffic flows not foreseen at the time of granting of the consent; and/or
 - d) To review the methodology of *quarry activities* should adverse noise, dust or nuisance effects become an issue; and/or
 - e) To require consistency with any relevant Regional Plan, District Plan, National Environmental Standard, Water Conservation Order or Act of Parliament.

Additional Advice Notes

Monitoring

- a) In accordance with section 36 of the Resource Management Act 1991, the Council's specialised monitoring fee will be charged.
- b) If the conditions of this consent require any reports or information to be submitted to the Council, additional monitoring fees for the review and certification of reports or information will be charged on a time and cost basis. This may include consultant fees if the Council does not employ staff with the expertise to review the reports or information.
- c) Where the conditions of this consent require any reports or information to be submitted to the SDC Manager please forward to the Council's Compliance and Monitoring Team compliance@selwyn.govt.nz
- d) Any additional monitoring due to non-compliance with the conditions of the resource consent will be charged to the consent holder as an additional monitoring fees on a time and cost basis.

Realignment of Roads and Road Stopping

- f) The physical formation of public roads will need to be approved by the relevant territorial local authority depending on which option is to be constructed. Railway crossing changes will also require the approval of KiwiRail Ltd. Road stopping approvals under Section 342 and Schedule 10 of the Local Government Act 1974 or section 116 and 117 of the Public Works Act may also be necessary

Vehicle Crossings

- g) Any new or upgraded vehicle crossing requires a vehicle crossing application from Council's Assets Department prior to installation. For any questions regarding this process please contact transportation@selwyn.govt.nz. You can use the following link for a vehicle crossing information pack and to apply online: <http://www.selwyn.govt.nz/services/roading/application-to-form-a-vehicle-crossing-entranceway>

Building Act

- h) This consent is not an authority to build or to change the use of a building under the Building Act. Building consent will be required before construction begins or the use of the building changes.

Impact on Council Assets

- i) Any damage to fixtures or features within the Council road reserve that is caused as a result of construction or demolition on the site must be repaired or reinstated and the expense of the consent holder.

Property Access

- j) Access by the Council's Officers or its agents to the property is reserved pursuant to Section 332 of the Resource Management Act 1991.