

**BEFORE INDEPENDENT HEARING COMMISSIONERS APPOINTED BY CANTERBURY
REGIONAL COUNCIL AND SELWYN DISTRICT COUNCIL**

UNDER THE Resource Management Act 1991 ('**Act**')

IN THE MATTER of applications by Fulton Hogan Limited for all
resource consents necessary to establish,
operate, maintain and close an aggregate quarry
(Roydon Quarry) between Curraghs, Dawsons,
Maddisons and Jones Roads, Templeton

**STATEMENT OF EVIDENCE OF GEMMA CONLON FOR
THE TEMPLETON RESIDENTS ASSOCIATION**

PLANNING

Dated: 14 October 2019

STATEMENT OF EVIDENCE OF GEMMA CONLON

INTRODUCTION

- 1 My name is Gemma Conlon. I am a resource management planner and a Director of Perspective Consulting, a resource management planning consultancy.
- 2 I hold a Bachelor of Science (Honours) degree in Environmental Planning and a Post-Graduate Diploma in Town and Country Planning from the Queen's University of Belfast, Northern Ireland. I am a Chartered Town Planner with the Royal Town Planning Institute and an Associate Member of the New Zealand Planning Institute.
- 3 I have over 19 years' experience as a resource management planner, working in local government and as a private consultant in Ireland, Australia and New Zealand. I worked for Timaru District Council for approximately eight years as a Senior Planner and latterly as Team Leader: Planning. This role gave me vast experience in a range of land use and subdivision development for industrial, commercial, retail and residential activities.
- 4 I have been a director of Perspective Consulting for approximately 16 months. During this time, I have worked on behalf of local government and for private developers on a range of resource management projects.
- 5 Relevant to this matter, I have experience in processing resource consent applications including preparing section 42A reports and attending resource consent hearings for district councils. As a consultant planner I have experience in evaluating development projects, preparing resource consent applications and presenting evidence at council resource consent and plan change hearings.
- 6 Although this is a council hearing, I have read and agree to comply with the Code of Conduct for Expert Witnesses contained in the *Environment Court of New Zealand Practice Note 2014*. I confirm that the issues addressed in this brief of evidence are within my area of expertise (except where stated), and I have not omitted to consider material facts known to me that might alter or detract from the opinions expressed.
- 7 In preparing my evidence, I have reviewed:
 - a) Application Assessment of Environmental Effects Report ("**AEE Report**")
 - b) AEE Report - Appendix C - Integrated Transportation Assessment
 - c) AEE Report- Appendix D - Air Quality Assessment (and Dust Management Plan)
 - d) AEE Report- Appendix E - Landscape and Visual Impact Assessment
 - e) AEE Report - Appendix F - Draft Cleanfill Management Plan
 - f) AEE Report - Appendix G - Draft Rehabilitation Management Plan
 - g) AEE Report - Appendix H - Combined PSI-DSI Contamination Report
 - h) AEE Report- Appendix I - Acoustic Assessment
 - i) AEE Report - Appendix J - Economic Assessment
 - j) AEE Report - Appendix K - Statutory Assessment
 - k) Selwyn District Council - further information request dated 25 July 2019
 - l) Environment Canterbury and Selwyn District Council - section 92 Request for Further Information
 - m) s92 response report of August 2019
 - n) SDC 42A Report of A Henderson - including draft conditions and economic review memo

- o) SDC s42A report - J Trevathan - Noise
- p) SDC s42A report - A Carr - Traffic
- q) SDC s42A report - Landscape assessment
- r) Evidence of K Bligh (dated 23 September 2019) - Project and consent conditions
- s) Evidence of J Kyle (dated 23 September 2019) - Statutory Planning Assessment
- t) Evidence of D Compton-Moen (dated 23 September 2019) - Landscape and Visual final
- u) Draft evidence of the Templeton Residents Association's ("TRA's") air quality consultant, Mr Charles Kirkby
- v) Draft evidence of the TRA's noise consultant, Mr Michael Smith
- w) Draft evidence of Jolene Edgar, TRA representative

SCOPE OF EVIDENCE

- 8 I have been engaged by the Templeton Residents Association ('**the submitter**') in relation to Fulton Hogan Limited's ('**the applicant**') resource consent application(s) to provide a short commentary on the recommendations contained in the Section 42A reports of Mr Andrew Henderson (for Selwyn District Council) and Ms Hannah Goslin (for Environment Canterbury) and to make recommendations in the form of possible consent conditions.
- 9 Mr Henderson and Ms Goslin have set out and assessed the proposal in detail, summarised expert reports that have guided their assessments of the environmental effects of the proposed quarry and I agree with the majority of their conclusions. I therefore will not repeat those, except to note that I agree with their recommendations to refuse consents for the reasons outlined in their respective reports.
- 10 However, if the Hearings Panel is minded to grant consent, my focus has been to address the outstanding environmental effects by responding to the proposed conditions of consent (as proposed to be amended by the applicant – as set out in Mr Kevin Bligh's evidence). The evidence that follows therefore provides my recommendations on conditions, which have been informed by the evidence of the submitter's air quality and acoustic consultants, Mr Charles Kirkby and Mr Michael Smith.
- 11 For the assistance of the Hearings Panel, I have attached as **Appendices 1 and 2** to my evidence a copy of Mr Bligh's proposed conditions that I have addressed in my evidence, marked up with my recommended changes in tracking.

SDC LAND USE CONSENT RC185627

Location of Quarry

- 12 Condition 4 as proposed by Mr Henderson states,

Pursuant to section 125 of the Act this consent shall 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. Once the consent has been given effect to, or work shall be completed within 40 years.

- 13 The applicant opposes the limitation to 40 years in this condition, '*...as it is not required to manage an effect and rehabilitation of the site will be progressive*'. However, I note that the

application specifically requests a 40-year duration and it is therefore not unreasonable to relate a condition to matters stipulated in an application. In this case, I believe the inclusion of such a condition would provide greater certainty for the community about the intended duration of the proposed activity. However, the condition would perhaps sit better under a separate heading, for example 'Duration of Activity'.

Management Plans

14 Condition 6, incorporating Mr Bligh's amendments reads,

This resource consent and a copy of the Council certified versions of all the plans required by this consent shall be kept on site at all times and the consent holder shall ensure all personnel are made aware of each plan's contents where the plan relates to activities that those personnel are responsible for.

15 Condition 78 details the various management plans that are required for the proposed quarry and are intended to ensure the conditions of the consent are complied with.

16 Mr Kirkby and Mr Smith both consider that there would be some value in the listed management plans forming part of an overarching "Quarry Management Plan" that would set out all of the practices and procedures to be adopted by the consent holder to ensure compliance with the conditions of the consent. I agree with their recommendations in this regard and consider it would be appropriate for the proposed conditions to be amended to require the development and implementation of a Quarry Management Plan (**QMP**) as a key requirement of the consent. The condition would replace condition 78, and given its importance, would be better addressed at the front end of the consent, potentially before condition 6. My recommended wording for the QMP condition is set out in **Annexure 1**.

Code of Practice

17 A code of practice is proposed under condition 38, as part of a proposed Transportation Management and Routing Plan to be prepared by the consent holder.

18 To provide greater certainty about the intended content of that document, and consequently implementation and adherence to actions around mitigation, I consider it would be appropriate for a more detailed condition/s to be included that require the development and implementation of "Cartage Contractors Safety Rules and Guidelines". In my view, it would be preferable for the conditions to include the following:

- a) Document certification by SDC;
- b) A requirement for the document to be provided to all quarry truck operators; the consent holder would be required to take all practical steps to ensure that all quarry truck operations using the quarry are alerted to the content of the document and abide by them;
- c) A requirement that the content of the document include:
 - details of hours of operation, limitations on truck movements and routes, traffic safety requirements, requirements to cover/dampen loads etc.
 - an explanation of how implementation would be effected (e.g. through information packages and formal inductions for quarry truck operators, signage for safety and amenity matters (e.g.

- covering/dampening/securing loads, restrictions on truck movements, reversing signals)).
- a mandatory requirement that all quarry truck drivers entering the quarry sign a copy of the Rules/Guidelines and undertake to comply with them, and sanctions for non-compliance (i.e. temporary bans or exclusions).

Landscape Management Plan

- 19 Conditions 13(i) & (j) of Mr Bligh’s evidence relate to the planting at the base and in front of the bunds, which Mr Henderson requests to be time bound. Mr Bligh suggests that the planting occurs within the first planting season following the establishment of the bunds.
- 20 In the applicant’s evidence, it has been clarified that the bunds and boundary planting can occur independently, and therefore the planting does not have to wait until the bunds are established. In my view, the planting should occur as soon as possible, to provide maximum establishment and growth time before activities occur. I consider the timeframe should be amended to relate to the first planting season following consent being granted.

Operational

- 21 The submitter seeks no activities to occur on Saturdays, Sundays or Public Holidays. However, if the Hearings Panel is satisfied on the effects to allow these days to be included, I have considered the nature of amendments that I believe would be required to the proposed conditions to ensure that operational effects are adequately addressed.

- 22 Condition 19 reads,

The hours of operation are 7.00 am to 8:00 pm, Monday to Saturday. Outside of these hours restricted processing operations and load out of trucks may occur as detailed in Table 1 below.

- 23 Table 1 sets out the proposed operating hours at the time Mr Henderson prepared his report, as follows:

Hours	Duration	Range of Activities
6.00 am to 7.00 am	Monday to Saturday	Load out of trucks, site pre-start up including operational warm up of conveyors and machinery. Clean fill deposition.
7.00 am to 6.00 pm	Monday to Saturday	Full range of quarry activities.
6.00 pm to 8.00 pm	Monday to Saturday on 150 days per annum.	Full range of quarry activities with the exception of processing using mobile plant and backfilling.
8.00 pm to 6.00 am	Monday to Saturday on 150 nights per annum	Load out of trucks and truck movements, and ancillary activities such as operation of

		weighbridge and site offices and clean fill deposition.
Sunday and public holidays	For up to 15 days per year	Truck movements – load out of aggregate and clean fill deposition.
At all times, dust suppression, operation of weighbridge office activities, site security and light maintenance as required.		

24 Mr Henderson recommended changes to the operating hours, which have been reviewed by Mr Bligh. Mr Henderson requested clarification of what 'load out of trucks' means, as it has no definition and is ambiguous. Mr Bligh responded by including the wording 'and truck movements'.

25 Mr Henderson sought the removal of all night-time activities, with Mr Bligh reinstating truck movements, but reducing them from 150 to 60 nights per annum. The proposed hours of operation and activities to occur during those hours are currently tabled by Mr Bligh as follows:

Hours	Duration	Range of Activities
6.00 am to 7.00 am	Monday to Saturday	Load out of trucks and truck movements , site pre-start up including operational warm up of conveyors and machinery. Clean fill deposition.
7.00 am to 6.00 pm	Monday to Saturday	Full range of quarry activities.
6.00 pm to 8.00 pm	Monday to Saturday on 150 days per annum.	Full range of quarry activities except mobile plant processing and working of clean fill. with the exception of processing using mobile plant and backfilling.
8.00 pm to 6.00 am.	Monday to Saturday on 150 up to 60 nights per annum	Load out of trucks and truck movements, and ancillary activities such as operation of weighbridge and site offices and clean fill deposition.
Sunday and public holidays	For up to 15 days per year	Load out of truck and truck movements —load out of aggregate and clean fill deposition.
At all times, dust suppression, operation of weighbridge office activities, site security and light maintenance as required. NB: 'Clean fill deposition' above, means the unloading of clean fill at the site, but not the working of clean fill.		

26 A key concern of the submitter is the hours of operation and the number of truck movements proposed. Of particular concern is the early start for truck movements, 6am; truck movements on Monday to Saturday evenings until 8pm on 150 nights per year; and all day and night up to 60 nights per year; in addition to activities on Sundays and public holidays.

27 As Ms Eagar has explained in her evidence, the submitter believes that the relentless nature of the activities will create cumulative detrimental impacts on residential amenity, recreation and enjoyment of the local environment. The submitter has therefore requested that there be no activity on Saturdays, Sundays and public holidays.

28 However, if the Hearings Panel approves of activities on those days, to alleviate the submitter's concerns regarding operations and activities, I recommend the proposed conditions to be amended to include:

- a) precluding any loaded trucks leaving the quarry before 7am, on any day.
- b) restricting truck movements on Saturdays, Sundays and Public Holidays to between 7.00am and 1pm, and on Mondays to Fridays to between 7.00am to 6pm.

29 The submitter has also raised concerns about night-time activities which have the potential to increase ambient noise levels and vibration. I therefore agree with Mr Henderson's assessment that should consent be granted, it should be on the basis that all the proposed night-time activity is omitted.

30 Condition 21 reads,

Truck movements outside the hours of 7.00 am to 8.00 pm Monday to Saturday shall be restricted to no more than 30 vehicle movements per hour.

31 Mr Henderson proposes deletion of this condition, whereas the applicant proposes this condition be reinstated. The applicant has proposed new condition 22, which restricts vehicle movements on certain roads during these times. However, as I agree with Mr Henderson's assessment, I also seek this condition to be removed to align with the abovementioned conditions.

32 Additionally, I note this condition (nor any others proposed) does not include limitations on truck movements on Sundays or Public Holidays. The effect would be that if not removed, or amended, truck movements on these days could be up to 1,200, as allowed by conditions 36 and 37. I recommend that this gap be addressed by way of amended conditions.

33 Condition 22 of Mr Bligh's evidence reads,

Heavy vehicle movements leaving or accessing the Roydon Quarry between the hours of 8.00 pm and 6.00 am shall not travel on the following roads:

- a. Jones Road west of access (between the access and Curraghs Road)
- b. Dawsons Road north of Jones Road (between Jones Road and Maddisons Road)
- c. Jones Road east of Dawsons Road (between Dawsons Road and Railway Terrace)

Advice note: The above conditions will also avoid travel down Curraghs Road.

34 If the intent is to preclude quarry traffic from Curraghs Road during these periods, then this should be included as a new sub-clause d. of this condition, as opposed to being cited in an advice note, which has no legal effect. However, as stated above, it is requested that no night time activity occur, and therefore this condition should be deleted.

35 I also note that condition 38(a) provides:

A Transportation Management and Routing Plan shall be prepared by the consent-holder. This will include, as a minimum, that:

a) *Fulton Hogan controlled trucks will only travel into or through Templeton if a delivery is in the immediate vicinity.*

...

36 As Ms Eagar has explained in her evidence, the TRA wishes to ensure all traffic is routed to SH1 irrespective of the time of day. Should the Hearings Panel accept the submitter's position in this regard, the amendments to conditions 30 and 38 that I have set out in Annexure 1 would be required.

Setbacks

37 Conditions 31 and 32 read,

31 *Any fixed processing plant and associated stockpiling shall be set back at least 500 m from the site boundaries and any mobile processing plant and associated stockpiling shall be set back at least 250 m from the site boundaries.*

32 *No extraction shall occur within 100 m of any dwelling existing at [the date of consent being granted] being 151 Curraghs Road and 319 Maddisons Road, without the prior written consent of the owners and occupiers of these dwellings.*

38 For the reasons outlined in Ms Eagar's evidence, the submitter is strongly opposed to the use of mobile processing plant. However, if this aspect of the proposed activity is to remain, I consider that these conditions should be amended to reflect the evidence of the submitter's air quality and acoustics consultants, Mr Charles Kirkby and Mr Michael Smith that:

- a) Fixed processing plant and mobile processing plant should be subject to the same setback of 500m from site boundaries; and
- b) There should be no extraction within 100m of any dwelling existing at the date of consent being granted.

Clean filling

39 Condition 34 refers to situations where additional fill is required to be brought into the site for rehabilitation purposes. Mr Henderson suggests that from a compliance perspective, reporting this to Council may circumvent any possible complaint. Mr Bligh's response is that this is not required if the consent is authorising the activity.

40 I can see where both parties are coming from, however, I agree with Mr Bligh that it is an inconsequential requirement, as the bringing of cleanfill to the site does not alter any other

conditions of consent, for instance the number of overall truck movements permitted will not increase.

Traffic

- 41 Condition 36 relates to the limit of heavy traffic movements, and includes, the requirement that,

...Records of heavy vehicle movements shall be kept in sufficient detail to enable monitoring of this to take place and shall be provided to the Council on an annual basis together with confirmation that this has not been exceeded.

- 42 I suggest this wording be amended to include the additional requirement that the traffic movement log be summarised on a monthly basis and reported quarterly to the Community Liaison Group, and is otherwise available on request.

Noise

- 43 Based on the evidence of the TRA's acoustics consultant, Mr Michael Smith, I consider that Conditions 43 – 47 should be amended to require:

- a) Only broadband noise alarms on quarry equipment, including all trucks (not just quarry-based equipment as proposed by Mr Bligh) – Condition 46; and
- b) The update and review of the noise management plan prior to the commencement of each stage of excavation – Condition 47.

- 44 In addition, Mr Smith has recommended (and I agree) that reporting of the following matters on the consent holder's website would assist the community to understand the level of activity at any time and how it may compare to the maximum consented output:

- a) Construction progress
- b) Locations that are currently being extracted / processed area
- c) Daily numbers of trucks through the gate; and
- d) Number of truck movements against consented limits.

- 45 I suggest this could be addressed by way of a new condition that may be best included under the heading "reporting and review".

Rehabilitation

- 46 Conditions 67 – 77 address the requirement for and objectives sought by a Quarry Rehabilitation Plan ("QRP"). There is some debate about the rationale for undertaking a yearly review of the QRP. I agree that an annual review may not be required but suggest that the conditions are amended to require a QRP be prepared for each of the five stages of development, which would be approximately every eight years over the lifetime of the consent.

- 47 Should the conditions relating to the Community Liaison Group, which I have addressed below be adopted, then I note that the operative QRP would be reviewed by this group on a regular basis and any amendments required would be undertaken through that process.

Consultation

- 48 Condition 79 proposes the establishment of a Community Liaison Group (“CLG”). Mr Bligh agrees to Mr Henderson’s suggested condition in this regard, save for the requirement for the consent holder to be responsible for costs of the CLG, including the costs of Council’s Compliance and Monitoring personnel.
- 49 I consider that the proposed condition could be improved by making the parameters of engagement and clarification of responsibilities clearer.
- 50 I also recommend that the establishment of the CLG be timebound (within three months of consent being granted – subject to appeals (if any)) and consider it would be beneficial for the purpose of the CLG to be extended to include:
- a) consideration of methods or ways of alleviating concerns and complaints and aspects of non-compliance;
 - b) dissemination of information to the CLG about the quarry, including the presentation of management plans required by the conditions of the SDC and ECan consents, proposed new quarry operations and relevant monitoring information;
 - c) assisting with the development and implementation of any mitigation or enhancements proposed by the Consent Holder over the life of the consent, including consultation on any future proposals for the quarry.
- 51 In my view, it would be appropriate for the conditions to require the CLG have an independent chair, and that meeting minutes be taken and distributed to members of the CLG. Mr Bligh maintains that costs associated with the CLG should ‘lie where they fall’. The submitter is agreeable to participating in the CLG and will not expect to charge the consent holder for its attendance at meetings or participation. However, it would seem reasonable that the consent holder meet any ancillary costs of the meeting (e.g. meeting invitations; meeting venue; preparation of meeting notes) and facilitation of meetings by an independent chair.
- 52 To ensure that the CLG process is robust, I also recommend that the conditions provide:
- a) A requirement that the Consent Holder shall procure the services of a suitably qualified independent professional mutually acceptable to the SDC, ECan, CLG and consent holder to review and verify the noise emissions reports, record of heavy vehicle movements, the complaints register, quarry rehabilitation plan etc, and prepare a report for circulation prior to the CLG meetings, to allow for considered discussion at the meeting.
 - b) For CLG members, by majority resolution at a meeting, to request a written response from the consent holder, within ten working days, on a matter relevantly and reasonably raised relating to the quarry. The condition should also provide that the written response include steps to be taken by the consent holder in relation to the matter, if any.
- 53 Finally, for completeness, and in recognition of the role of the CLG, I consider that the conditions should also include a requirement for the consent holder to inform the CLG of any application for resource consent/variation that might have off site effects, i.e. effects beyond the quarry.

ECAN CONSENTS

- 54 The submitter's air quality consultant, Mr Kirkby, has set out various concerns he has with respect to Mr Bligh's proposed conditions of the ECan land use consent (CRC192408 and CRC192409) and air discharge consent CRC192410. For the sake of brevity, I have not restated Mr Kirkby's recommendation here, but have included them as tracked changes in the set of proposed consent conditions included in **Appendix 2** to my statement of evidence.
- 55 I note that the submitters have raised concerns regarding the proposed depth of excavation in relation to preservation of groundwater quality. While I have not offered any suggested amendments to address this issue, I note that changes may need to be made to the proposed conditions of ECan consents CRC192408 and CRC192409 to reflect any conclusions reached by the Hearings Panel on that issue.

CONCLUDING COMMENTS

- 56 As already outlined, I agree with the recommendations of Mr Henderson and Ms Goslin that the applications should be refused.
- 57 However, if the Hearings Panel is minded to grant consent, I believe the recommendations made in my evidence around proposed conditions would go some way to addressing issues raised by the submitter and its air quality and noise experts in relation to the proposed quarry. In particular, I believe these amendments would give the community greater confidence of consent condition compliance and provide greater transparency of the consent holder's activities.

Dated 14 October 2019



Gemma Conlon

APPENDIX 1 –DRAFT CONDITIONS – SDC CONSENT RM180205

Note: These conditions have been amended post the Officer's report and the Applicant evidence, prepared by Mr Bligh. Where the applicant has agreed to the Officer recommendations, these have been accepted into the text of the conditions. Tracked changes and comments identify where there is disagreement between the Applicant and my proposed conditions.

General Conditions

- 1) Except as required by subsequent conditions the development shall proceed 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. The Approved Consent Documentation has been entered into Council records as XXXX. Where there is any conflict between the application and the conditions, the conditions of consent shall prevail.

Location of Quarry

- 2) The area to be excavated shall be in accordance with the area shown on the attached XXX plan dated XXX. This is the quarry area within the quarry site.

Lapse and Expiry

- 3) The consent holder is to notify the Team Leader Resource Consents, Selwyn District Council, at least 5 working days prior to commencement of activities authorised by this consent.
- 4) Pursuant to section 125 of the Act this consent shall 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.

Duration of Activity

- 4)5) _____ -Once the consent has been given effect to, ~~or all~~ work shall be completed within 40 years.

Management Plans and Works to be completed prior to commencement of quarry operations

- 6) A Quarry Management Plan (QMP) shall be developed and implemented to set out all of the practices and procedures to be adopted by the consent holder to ensure compliance with the conditions of the consent. The QMP will comprise a number of management plans that are intended to describe how conditions will be met and address how potential adverse effects are to be monitored and managed. The management plans may change and evolve over time in order to remain responsive to current operations and environmental conditions. The site shall operate in accordance with the QMP, which shall include the following:

- a. Rehabilitation Management Plan (Appendix G of the AEE).
- b. Dust Management Plan (Appendix D of the AEE).
- c. Cleanfill Management Plan (Appendix F of the AEE).
- d. Spill Management Plan.
- e. Transportation Management and Routing Plan.
- f. Noise Management Plan.

In the event of an inconsistency between the management plans and a condition of this consent, these conditions shall prevail.

Certification

- ~~5~~7) _____ The following shall apply in respect of any condition which requires the consent holder to provide the Council with a plan or similar document 'for certification'
- a) the consent holder shall provide the plan to the Council in accordance with the timeframe specified in the applicable condition;
 - b) the consent holder may commence the activities for which the plan relates in accordance with the submitted plan unless the Council advises the consent holder in writing within 20 working days of receipt of the plan that it refuses to certify it on the grounds that it fails to meet the requirements of the condition which requires such a plan to be provided in the Council provides reasons why that view is held;
 - c) should the Council refused to certify the plan, the consent holder shall submit a revised plan to the Council for certification. Clause(b) shall apply for any resubmitted plan;
 - d) once certified the plan may be varied by the consent holder. The certification process for any variation to the plan shall follow the process outlined in (a) to (c) above. The activities subject to the variation shall not commence until the variation has been certified by the Council.
- 8) This resource consent and a copy of the Council certified versions of all the plans required by this consent shall be kept on site at all times and the consent holder shall ensure all personnel are made aware of each plan's contents where the plan relates to activities that those personnel are responsible for.
- 9) The Consent Holder shall develop and implement a "Cartage Contractors Safety Rules and Guidelines" document prior to quarrying operations commencing on the site. This document shall contain, but not be limited to the following requirements:
- i. Document certified by Selwyn District Council.
 - ii. Document to be provided to all quarry truck operators; the consent holder is required to take all practical steps to ensure that all quarry truck operations using the quarry are alerted to the content of the document and abide by them [to include hours of operation, limitations on truck movements and routes, traffic safety requirements, requirements to cover/dampen loads].
 - iii. Document shall explain implementation (e.g. information packages and formal inductions for quarry truck operators, signage for safety and amenity matters (e.g. covering/dampening/securing loads, restrictions on truck movements, reversing signals)).
 - iv. All quarry truck drivers entering the quarry sign a copy of the Rules/Guidelines and undertake to comply with them, and sanctions for non-compliance (i.e. temporary bans or exclusions).

Supervision and Notification

- ~~6~~10) _____ The consent holder shall appoint a representative(s) prior to the exercise of this resource consent, who shall be the Council's principal contact person(s) in regard to matters relating to this consent.
- ~~7~~11) _____ All quarrying works shall be overseen by a suitably qualified and experienced quarrying practitioner.

~~8)~~12) Should any persons change during the term of this resource consent, the Consent holder shall inform the Team Leader – Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) and shall also give written notice to the Team Leader of the new person's name and how they can be contacted as soon as practicable.

Site Preparation and Landscaping

Landscape Management Plan

~~9)~~13) Establishment of landscape works (predominantly bunding and planting) shall not occur until Selwyn District Council has certified a final LMP in general accordance with the Landscape Management Plan, Project No. 2017_031|B prepared by DCM Urban. The purpose of the Landscape Management Plan (LMP) is to ensure the successful establishment and long-term success of the proposed on-site landscape works.

~~10)~~14) The consent holder shall ensure that all quarry activities are undertaken in a general accordance with the certified landscape management plan.

~~11)~~15) The commencement of Stage 1 of quarrying operations shall not begin until landscape works defined in the approved LMP are established on-site.

~~12)~~16) Prior to quarrying operations commencing on the site, site bunding and landscaping shall be established in accordance with the LMP certified in Condition 4 and 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 from the 12 March 2019 and 16 August 2019 further information responses. This shall include:

Bunding

- a. Establishment of 3 m high earth bunds around the site perimeter, with the exception of site accessways, with a 1 m wide flat top shall be constructed around the site. The bunds shall have a profile with an outside slope of up to 1:3 (one vertical to three horizontal) and a 1 m wide top and shall have a minimum width of 15 m.
- b. Overlapping bunding, or a planted island barrier, shall be established to the heavy vehicle accessway entrance adjacent to Jones Road, so as to obscure views into the quarry from Jones Road (as per the example shown on Page 25 of the LVIA prepared by DCM Urban, Project No. 2017_31, dated 12 August 2019, or as otherwise may be approved by the Team Leader, Resource Consents).
- c. As soon as practicable following construction of the bunds, the bunds are to be sown with grass or hydro-seeded to achieve swift grass cover and watered regularly to ensure grass cover is established and maintained.
- d. To assist in achieving swift grass cover, construction of the bunds shall take place outside of summer months and in favourable weather, to avoid significant potential dust risk (e.g. during the months of February to November inclusive) and enable grassing of the bunds to occur in autumn or spring, in order to align with periods of good grass strike.
- e. The grassed bunds shall be mown regularly or grazed to give a tidy appearance.
- f. The grassed bunds shall be watered, when required to suppress potential dust, until a grass cover has been established.

- g. To ensure the survival of the existing shelter belts (identified on the figure Mitigation Measures – Edge Treatments on Page 17 of the LVIA) bunds should not be constructed within 1 m of the base of trees. Where no shelterbelt currently exists, bunding shall be setback at least 4 m from the site boundary. This design is shown in the Edge Treatments included on pages 19-22 of the LVIA prepared by DCM Urban, Project No. 2017_31, dated 12 August 2019.

Planting

- h. The existing shelterbelts (identified on the figure Mitigation Measures Edge Treatments on Page 17 of the LVIA prepared by DCM Urban, Project No. 2017_31, dated 12 August 2019) 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 shall be retained. Where there are gaps or where the vegetation is dying or in poor condition these gaps shall be filled with similar tree species to achieve closures of these gaps.
- i. An additional row of plantings shall be established behind these existing shelter belts as shown on the Edge Treatments A and C (pages 19 and 21) of the LVIA prepared by DCM Urban, Project No. 2017_31, dated 12 August 2019. This row of plantings ~~may shall~~ be established ~~at the base of the bunds~~ within the first planting season following ~~the establishment of the bunds~~ consent being granted.
- j. Along the site boundaries where there is no planting, three rows of plantings shall be established in accordance with the Edge Treatments B and D (pages 20 and 22) of the LVIA prepared by DCM Urban, Project No. 2017_31, dated 12 August 2019 within the first planting season following ~~the establishment of the bunds~~ consent being granted.
- k. All planting required for this consent under this condition (Condition 13 i) to m) shall be maintained. Any dead, diseased, or damaged planting is to be replaced with plants of a similar species and as soon as practicable, having regard to planting seasons.
- l. All planting will be established on the outer side of the bunds.
- m. Any plantings along the Jones Road boundary will be maintained at a height of 5 m or less to limit shading of the road carriageway.

Site Access

- ~~13)17)~~ 17) Vehicle access shall be provided on Jones Road, between Curraghs and Dawsons Road, for light and heavy vehicles. This may involve a separate access point exclusively for light vehicles. These access points shall be designed and constructed/ upgraded in accordance with the recommendations of the Stantec ITA (Appendix C of the AEE). The heavy vehicle access shall be located at least 250 metres from the dwelling at 1090 Main South Road.
- ~~14)18)~~ 18) Roothing upgrades shall be undertaken in accordance with the Stantec ITA (Appendix C of the AEE). This shall include provision of a roundabout on Dawsons Road and rooding upgrades on Jones Road.
- ~~15)19)~~ 19) The rooding improvement schemes specified in Conditions 14 and 15 above shall be constructed and fully operational prior to any movement of materials to or from the site.

~~16)20)~~ Prior to the commencement of the works required in Conditions 14 and 15, the consent holder shall provide detailed designs to the Council's Transportation Asset Manager for technical review and certification.

~~17)21)~~ The consent-holder shall arrange for a detailed design road safety audit to be carried out of the Jones Road / Dawsons Road roundabout. The audit shall be carried out by a suitably qualified, independent traffic engineer. Matters raised in the audit shall be considered by the consent-holder, and the audit and outcomes will be provided to the Council.

Operational

General

~~18)22)~~ The hours of operation are 7.00 am to 8:00 pm, Monday to ~~Saturday~~Friday. Outside of these hours restricted processing operations and load out of trucks may occur as detailed in Table 1 below.

Table 1: Hours of operations/activities

Hours	Duration	Range of Activities
6.00 am to 7.00 am	Monday to Saturday	Load out of trucks and truck movements, Site pre-start up including operational warm up of conveyors and machinery. Clean fill deposition.
7.00 am to 6.00 pm	Monday to Saturday Friday	Full range of quarry activities.
7.00 am to 1.00 pm	Saturday	Full range of quarry activities.
6.00 pm to 8.00 pm	Monday to Saturday on 60 days per annum.	Full range of quarry activities except mobile plant processing and working of clean fill. with the exception of processing using mobile plant and backfilling.
8.00 pm to 6.00 am.	Monday to Saturday on 150 up to 60 nights per annum	Load out of trucks and truck movements, and ancillary activities such as operation of weighbridge and site offices and clean fill deposition.
Sunday and public holidays 7am to 1.00pm	For up to 15 days per year	Load out of truck and truck movements —load out of aggregate— and clean fill deposition.
At all times, dust suppression, operation of weighbridge office activities, site security and light maintenance as required. NB: 'Clean fill deposition' above, means the unloading of clean fill at the site, but not the working of clean fill.		

~~19)23)~~ No aggregate processing or transportation from the site shall take place prior to the opening of the Christchurch Southern Motorway Stage 2 (CSM2).

~~20)~~ Truck movements outside the hours of 7.00 am to 8.00 pm Monday to Saturday shall be restricted to no more than 30 vehicle movements per hour.

~~21)~~ Heavy vehicle movements leaving or accessing the Roydon Quarry between the hours of 8.00 pm and 6.00 am shall not travel on the following roads:

- ~~a.~~ Jones Road west of access (between the access and Curraghs Road)
- ~~b.~~ Dawsons Road north of Jones Road (between Jones Road and Maddisons Road)
- ~~c.~~ Jones Road east of Dawsons Road (between Dawsons Road and Railway Terrace)

~~Advice note: The above conditions will also avoid travel down Curraghs Road.~~

Excavation

~~22)24)~~ No excavation shall occur below 1 m above the highest recorded groundwater level at the site, as at the date of this consent being granted.

~~23)25)~~ The consent holder shall establish a surveyed datum point at local ground level in an area that will not be excavated. This point shall be used to certify the depth of excavation and cleanfill at any point within the consent holder's site.

~~24)26)~~ Should the groundwater water level increase (at times of high-water table) so that the separation is less than 1 m between the measured groundwater levels and the base of the quarry floor, the consent holder shall apply virgin materials (aggregate sourced from within the site, opposed to imported cleanfill) in these areas, so as to re-establish a 1 m separation distance. Such actions shall be reported to the Team Leader – Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) within one month of the work being undertaken. This requirement shall not apply to any areas which have already been rehabilitated.

~~25)27)~~ Access to the quarry excavation areas shall be secured by fencing and lockable gates.

~~26)28)~~ After the establishment of the quarry pit, no processed aggregate stockpiles shall be above the height of natural ground level.

~~27)29)~~ All processed aggregate products shall be stockpiled by grade within the quarry floor area. All stockpile volumes shall have a maximum total volume of 200,000 m³ at any one time and shall be located below the height of the level of the bunds, following the establishment of the central processing area.

~~28)30)~~ Site areas shall be limited to a maximum area in accordance with the following specified open ground limitations, at any one time, as set out in the table below:

Table 2: Open area limits for active quarrying.

Purpose	Area (ha)
Central processing area, its fixed plant, stockpiles, portable plant etc	7
Excavation in process	5
Fill and rehabilitation in process	5
Site roads – unsealed	5
Field conveyor, service lanes	4

Total active area	26
The above areas exclude the sealed access road(s) and any site buildings.	

~~29)~~31) Any roads within the central processing area shall be sealed as shall the access road(s) into the site.

Setbacks

~~30)~~32) Any fixed processing plant and associated stockpiling shall be set back at least 500 m from the site boundaries and any mobile processing plant and associated stockpiling shall be set back at least ~~250~~500 m from the site boundaries.

~~34)~~33) No extraction shall occur within 100 m of any dwelling existing at [the date of consent being granted,] ~~being 151 Curraghs Road and 319 Maddisons Road, without the prior written consent of the owners and occupiers of these dwellings.~~

Keeping of Records

~~32)~~34) At the conclusion of each stage, the consent holder shall forward a progress report to the Team Leader – Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz). The report will note the volume of material extracted, the amount and type of fill placed, the area of excavation that remains open, and the number of daily truck movements associated with the operation during that stage. Each report will include a plan showing the area which has been worked during the applicable period.

Cleanfilling

~~33)~~35) Where additional fill is required to be brought into the site for rehabilitation purposes, the consent holder shall ensure that all material deposited in the excavated area is:

- a. Only material defined as 'Cleanfill' as set out in the advice note attached to this condition;
- b. The material is not deposited into groundwater; and is at least 1 m above the highest recorded groundwater level, subject to Condition 23);
- c. Material is deposited in accordance with a Cleanfill Management Plan which has been prepared in accordance with Section 8.1 and Appendix B of "A Guide to the Management of Cleanfills", Ministry for the Environment, January 2002;
- d. Checked by the site manager prior to deposition in the pit. If the material is not classified as Cleanfill, the consent holder shall immediately remove the material and arrange for the disposal of it at an appropriate location; and
- e. Recorded by an electronic weighing system. The record shall include a detailed record of all materials deposited into the Cleanfill site and shall be provided to the Selwyn District Council annually. This record shall include the following information:
 - i. The name of the company delivering the material;
 - ii. The date of deposition;
 - iii. The physical address of the land the material was sourced from;
 - iv. A description of the material;
 - v. The approximate quantity of material; and
 - vi. The weight or volume of the material deposited; and

- vii. The approximate location of the load within the site following deposition.
- f. Copies of this documentation shall be provided to the Council on an annual basis request and otherwise shall be available on request.

Advice note: 'Cleanfill' is defined as:

Material that when buried will have no adverse effect on people or the environment. Cleanfill material includes virgin natural materials such as clay, soil and rock, and other inert materials such as concrete or brick that are free of:

- combustible, putrescible, degradable or leachable components
- hazardous substances
- products or materials derived from hazardous waste treatment, hazardous waste - stabilisation or hazardous waste disposal practices
- materials that may present a risk to human or animal health such as medical and veterinary waste, asbestos or radioactive substances
- liquid waste.

~~34)~~36) Any contractor depositing material at the site shall have a written contract with the consent holder and shall be provided with a copy of this consent prior to entering the site. Site inductions will be held on a quarterly basis for contractors using the site, and records of these inductions shall be kept and provided to the Council on an annual basis request and otherwise shall be available on request.

Traffic

37) Heavy vehicle movements shall not exceed a maximum of 1,200 movements per day. For the avoidance of doubt, this would equate to 600 trucks entering the site each day, and 600 trucks exiting each day. Records of heavy vehicle movements shall be kept in sufficient detail to enable monitoring of this to take place and shall be provided:

- a. to the Council on an annual basis together with confirmation that this has not been exceeded.
- b. summarised on a monthly basis
- c. reported quarterly to the Community Liaison Group
- a-d. available on request

~~35)~~38) Heavy vehicle movements shall not exceed more than 800 movements per day, as an average, over any consecutive 60 calendar day period. For the avoidance of doubt, this would equate to 400 trucks entering the site each day, and 400 trucks exiting each day. Records of heavy vehicle movements shall be kept in sufficient detail to enable monitoring of this to take place and shall be provided to the Council on an annual basis together with confirmation that this has not been exceeded.

39) A Cartage Contractors Safety Rules and Guidelines (CCSRG) shall be prepared by the consent-holder and certified by Selwyn District Council. This guideline will be provided to all quarry truck operators. The consent holder is required to take all practical steps to ensure that all quarry truck operations using the quarry are alerted to the content of the document and abide by them. The CCSRG will include, as a minimum:

- a. details of hours of operation, limitations on truck movements and routes, traffic safety requirements, requirements to cover/dampen loads etc.
- b. an explanation of how implementation would be effected (e.g. through information packages and formal inductions for quarry truck operators, signage for safety and amenity matters (e.g. covering/dampening/securing loads, restrictions on truck movements, reversing signals)).

- c. a mandatory requirement that all quarry truck drivers entering the quarry sign a copy of the Rules/Guidelines and undertake to comply with them, and sanctions for non-compliance (i.e. temporary bans or exclusions).
- d. trucks controlled by the consent holder will only travel into or through Templeton if a delivery is in the immediate vicinity.
- e. The consent holder will require any contractor truck drivers accessing the site to sign on to a code of practice committing to the same.
- f. A prominent sign will be established inside the quarry gate reminding drivers not to travel through Templeton unless a delivery is in the immediate vicinity.
- g. Arrangements for site induction shall include a section on truck route options to and from the site and specifically address point (b) above.

The consent holder shall ensure that all quarry activities are undertaken in a general accordance with the certified Transport Management and Routing Plan.

~~36) A Transportation Management and Routing Plan shall be prepared by the consent holder. This will include, as a minimum, that:~~

- ~~a. Fulton Hogan controlled trucks will only travel into or through Templeton if a delivery is in the immediate vicinity.~~
- ~~b. Fulton Hogan Consent holder will require any non FH-controlled truck drivers accessing the site to sign on to a code of practice committing to the same.~~
- ~~c. A prominent sign will be established inside the quarry gate reminding drivers not to travel through Templeton unless a delivery is in the immediate vicinity.~~
- ~~d. Arrangements for site induction shall include a section on truck route options to and from the site and specifically address point (b) above.~~

~~The consent holder shall ensure that all quarry activities are undertaken in a general accordance with the certified Transport Management and Routing Plan~~

~~37) The surveys and assessments specified in Condition 38 above shall be repeated at least one each year that the quarry is operational.~~

~~38)40) _____~~ The heavy vehicle internal access road from the Jones Road boundary into the site shall be sealed over a distance of at least 100m to prevent debris being carried out onto the public road. Any light vehicle access road into the site from the Jones Road boundary will also be sealed for its full length.

~~39)41) _____~~ To avoid material being deposited, dropped or tracked onto Jones Road from the application site, the following measures shall be put in place for the heavy vehicle access road:

- a. Any unsealed portion of the access road connecting to the sealed part of access road is to have clean chip placed on it to minimise dust and movement of larger material to the sealed portion of the access;
- b. At least the first 100 m of the sealed portion inside the site boundary of the heavy vehicle access road is to be inspected daily and debris swept as required.
- c. The edges of the sealed access road shall be inspected and maintained, particularly where pot holes emerge. Before they are filled, pot holes shall be coned off to avoid further damage and likelihood of material transfer to the road;
- d. Trucks shall be inspected (which may be by camera) at the weighbridge with the purpose of identifying and minimising the risk of material being carried onto Jones Road.

~~40)42) _____~~ The length of Jones Road from Dawsons Road to the site's vehicular entrance must be regularly inspected by the consent holder for sediment tracked by vehicles to and from the site. In the event that any sediment does get tracked onto the public roadway from the site, all material must be removed immediately. A record of when road cleaning has taken

place must be retained and must be made available to Council on request and otherwise provided to the Council annually.

Noise

~~41)~~43) All activities on the site (other than construction), 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", shall not exceed the following noise limits at any point within any other site, during the following times:

- Daytime 0700 to 1800 hrs 55 dB LAeq
- Evening 1800 to 2000 hrs 50 dB LAeq
- Night 2000 to 0700 hrs 45 dB LAeq and 70 dB LAmax

~~42)~~44) In order to permit vehicle access onto the site, the noise limits above shall not apply to vehicle movements when measured within 250 m of the site's heavy vehicle entrance.

~~43)~~45) Construction activities including the establishment of the site, roadworks, topsoil stripping, bund construction deconstruction and topsoil spreading, and formation of final batter slopes, shall be conducted in accordance with NZS 6803: 1999 "Acoustics - Construction Noise", and shall comply with the "typical duration" noise limits contained within Table 2 of that Standard.

~~44)~~46) Should audible vehicle reversing alarms be required, only broadband noise alarms are to be used on quarry-based equipment including trucks. Tonal reversing alarms are not permitted.

~~45)~~47) Prior to the commencement of each new stage of the activity, the consent holder shall submit to the Team Leader – Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz), a Noise Management Plan relating to the proposed operation. The Plan shall describe in detail the proposed managerial measures to be used to control noise generated by the operator. The Plan shall describe the role of staff in the management of noise, and nominate the specific staff member(s) responsible for overseeing the implementation and upkeep of the Plan. The Plan shall also specify procedures should any complaint in relation to noise be received.

Noise emissions from the site shall be measured and assessed in accordance with Condition 43) above, by a suitably qualified and experienced acoustic consultant at the following stages:

- Once within the first 12 months following the commencement of gravel extraction activities,
- Once when excavation advances to within 400 metres of the dwellings at 319 Maddisons and 151 Curraghs Road
- Each time a different mobile crushing plant is operated within 400 metres of the dwellings at 319 Maddisons and 1531 Curraghs Road
- Once when rehabilitation activities are undertaken within 400 metres of the dwellings at 319 Maddisons and 151 Curraghs Road

On each occasion, a report describing the measurement results shall be submitted to the Team Leader – Compliance, Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) within 20 working days of completion of the survey.

Lighting and Glare

~~46~~48) Lighting from the site shall be directed downwards and shall 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.

~~47~~49) All lighting for the site will be designed and installed by an appropriate and recognised lighting specialist, in general accordance with the Lighting Plan prepared by Ideal Supplies Ltd. Lighting Design reference 3242, and dated 5 August 2019.

Airport Operations and Bird Strike

~~48~~50) No activities shall take place in the floor of the quarry which involve feeding and or encouragement of birds. The quarry shall be managed to ensure that any surface ponding drains freely while rehabilitated qrp areas shall be designed and finished to be free draining surfaces, as provided for in the Draft Quarry Rehabilitation Plan (Appendix G of the AEE).

~~49~~51) An emergency contact person responsible for on-site operations, and their contact details, shall be provided to Christchurch International Airport Limited (CIAL) prior to this consent being exercised. This will 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, glare from any operations and bird management. If the emergency contact person should change during the exercise of this consent, the consent holder shall advise CIAL of the new contact details for the new emergency contract person.

~~50~~52) Subject to prior contact with the on-site operations managers, CIAL's planning staff and/or Wildlife Management Officer may arrange visits to the 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.

~~51~~53) Solid waste shall be disposed of to an approved solid waste facility by an appropriately licenced operator. Solid waste shall 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.

~~52~~54) CIAL shall be provided with an opportunity to participate in the development and review of management plans for the duration of the consent to ensure that the plans are being implemented and as changes are needed, these are being actioned and implemented appropriately.

Hazardous Substances

~~53~~55) The consent holder will take all practicable step to mitigate fuel spills or contaminants. In the event of a spill of fuel or any other contaminant, the consent holder shall clean up the spill as soon as practicable and take measures to prevent a recurrence.

~~54~~56) The consent holder shall inform the Team Leader - Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) within 24 hours of any spill event greater than 4 litres and shall provide the following information:

- The date, time, location and estimated volume of the spill;
- The cause of the spill;
- The type of contaminant(s) spilled;
- Clean up procedures undertaken;

- Details of the steps taken to control and remediate the effects of the spill on the receiving environment;
- As assessment of any potential effects of the spill and measures to be taken to prevent a recurrence.

~~55~~~~57~~ The only hazardous substances to be stored on site shall be fuel and lubricants for quarry plant and machinery.

~~56~~~~58~~ The total maximum volume of diesel to be stored on site shall not exceed 15,000 litres (L). Diesel storage shall have a Stationary Container Certificate and the storage of all hazardous substances on site shall be in accordance with the requirements of the Hazardous Substances and New Organisms Act 1996.

Demolition

~~57~~~~59~~ Prior to any demolition of the dwellings on the site, asbestos surveys shall be undertaken, and any identified or suspected asbestos containing material (ACM) shall be removed. All asbestos work shall 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 shall be used to determine if asbestos investigation of soil is required around the periphery of the dwellings.

~~58~~~~60~~ When any dwellings on the site have been vacated, prior to demolition, the investigation of lead-based paint in soils around the periphery of the dwellings shall be undertaken and reported to Team Leader - Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz).

Remediation of Contaminated Material

~~59~~~~61~~ The handling and reuse of contaminated material as 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) shall be undertaken in accordance with a Remediation Action Plan (RAP). The RAP shall be prepared and submitted to the Team Leader - Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) and the Canterbury Regional Council prior to the remediation works commencing.

~~60~~~~62~~ The material identified in Condition 61) may be reused in the construction of earth bunds on the site and for rehabilitation of the base of the quarry excavation only if identified as being suitable for doing so in accordance with the RAP prepared under Condition 61).

~~61~~~~63~~ The excavation of the material identified in Conditions 62 and 61 shall be supervised and validated by a Suitably Qualified and Experienced Practitioner as defined in the NES Contaminated Land Users' Guide (MfE 2012). On completion of the works, the consent holder shall submit a site validation report to the Team Leader – Compliance, Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz).

~~62~~~~64~~ Prior to undertaking any works in areas of contaminated land, Fulton Hogan shall remove any contaminated soils from the site, in order to remove the risk for any ongoing contamination from such land. Following the removal of any waste material and soil containing heavy end hydrocarbons from the site, validation sampling of the underlying soils shall be completed, to determine the land can be suitably reinstated for rural residential or recreation end use, upon the completion of quarrying.

~~63)65)~~ An unexpected discovery protocol shall be prepared to address the potential for uncovering of contaminated soil/materials during earthworks and extraction, and shall be applicable to the whole development.

~~64)66)~~ In the event that soils are unexpectedly found that have visible staining, odours and/or other conditions that indicate soil contamination then work must cease and all workers shall 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 shall occur without advice from a Suitably Qualified and Experienced Practitioner (SQEP) on land contamination and the agreement of the local authorities.

Rehabilitation

~~65)67)~~ At least one month prior to the commencement of ~~any activities~~each stage of development authorised by this resource consent, the consent holder shall submit a Quarry Rehabilitation Plan (QRP) via email to the Team Leader - Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) for technical review and certification (or their nominee).

~~66)68)~~ The QRP shall be based on the draft QRP submitted to the Selwyn District Council in November 2018 and developed in accordance with Rule 17.8.3.14 of the ~~Christchurch~~Selwyn District Plan (as at 5 March 2019).

~~67)69)~~ If the Selwyn District Council confirms receipt of the QRP but then fails to provide any further response to the consent holder within a period of two months then the QRP shall be deemed to be certified.

~~68)70)~~ Rehabilitation of the site shall be undertaken in accordance with the certified QRP and implemented at the completion of each stage of extraction.

~~69)71)~~ Rehabilitation work shall only be undertaken during the relevant consented hours.

~~70)72)~~ The QRP shall be reviewed annually to assess the need for it to be updated. A scheduled review of the QRP shall consider the following matters, in terms of suitability of existing content and any requirement for new information:

- a) Outlining rehabilitation activities undertaken during the reporting period.
- b) Areas of the site to be quarried (extraction) over the next 12 months.
- c) Plans for earthworks, including overburden stripping and disposal, over the next 12 months.
- d) Areas of vegetation removed and areas planted during the reporting period.

~~71)73)~~ An unscheduled update (out of annual review timeframe) of the QRP shall be triggered, should any of the following circumstances occur:

- a. When there is a fundamental shift in operational activities (e.g. unscheduled move to a new area).
- b. Following significant environmental incidents (e.g. flooding on the site, causing damage to assets).

~~72)74)~~ The final internal slopes of the quarry should be formed to provide an irregular form to the edge of the quarry but at gradients which allow for the placement of topsoil and grass growth. The slope gradient should vary between 1 in 3 and 1 in 6 with an irregular form to negate a linear, uniform appearance of the slopes and to create a more natural appearance.

~~73)75)~~ Following completion of quarrying and within 6 months of completion of cleanfilling in a substage, a minimum 300 mm topsoil layer shall be applied over the finished surface level and sown with a suitable grass species or Team Leader - Compliance Environmental Services, Selwyn District Council (compliance@selwyn.govt.nz) planted with another suitable vegetation.

~~74)76)~~ Re-grassing or otherwise vegetating final top soil layers within each rehabilitated sub-stage shall occur within 60 days, to minimise dust generation and erosion losses. If this work is required outside of spring or autumn, the area can be suitably mulched or covered with another form of material to suppress dust from the area until it is appropriate to re sow grass. Irrigation of grass-seeded areas shall be undertaken as required to ensure establishment.

~~75)77)~~ All finished surfaces to be designed and constructed to be free draining.

Management Plans

~~76)~~ A number of management plans are proposed for the quarry to ensure that the conditions of this consent are complied with. The management plans are intended to describe how conditions will be met and address how potential adverse effects are to be monitored and managed. The management plans may change and evolve over time in order to remain responsive to current operations and environmental conditions. The site shall operate in accordance with the following management plans:

- ~~a. Rehabilitation Management Plan (Appendix G of the AEE).~~
- ~~b. Dust Management Plan (Appendix D of the AEE).~~
- ~~c. Cleanfill Management Plan (Appendix F of the AEE).~~
- ~~d. Spill Management Plan.~~
- ~~e. Transportation Management and Routing Plan.~~
- ~~f. Noise Management Plan.~~

~~In the event of an inconsistency between the management plans and a condition of this consent, these conditions shall prevail.~~

Consultation

~~77)78)~~ Within three months of this consent being granted, the consent holder shall establish a Community Liaison Group (CLG) in accordance with the following requirements:

- a. The purpose of the CLG shall include, but not be limited to, the following:
 - i. To engage on an on-going and regular basis about matters associated with the operation of the quarry where those matters affect the community and are of mutual interest to the representative parties.
 - ii. to promote the free 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;
 - iv. to identify methods or ways of alleviating concerns and complaints and aspects of non-compliance;
 - v. to disseminate information to the CLG about the quarry, including the presentation of management plans required by the conditions of the SDC and ECan consents and amendments of those plans, proposed new quarry operations and relevant monitoring information; and

- vi. to assist with the development and implementation of any mitigation or enhancements proposed by the Consent Holder over the life of the consent, including consultation on management plans, future proposals for the quarry and proposed consent variations.

For the avoidance of doubt, the CLG may, by majority resolution at the meeting, seek a formal written response from the consent holder on a matter relevantly and reasonably raised. The consent holder must within 10 working days provide a written response responding to the matter raised by the CLG, including any steps to be taken.

- b. The CLG shall initially comprise up to two representatives of the consent holder and the consent holder shall 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), the New Zealand Motor Caravan Association Incorporated and representatives of the relevant the Kaitiaki Runanga.

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 shall 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 construction activities on the site;
 - ii. Not less frequently than quarterly during the first year of the quarry being established, 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. Proposed meetings shall be notified to members of the CLG and to any members of the local community whose contact details have been provided to the consent holder.
- f. Minutes of the CLG meetings shall be made publicly available.

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 shall 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 continue to apply.

79) The consent holder shall ensure the CLG is chaired by an independent professional mutually acceptable to the SDC, ECan, CLG and consent holder, with meeting minutes taken and distributed to members of the CLG.

~~78)~~80) The consent holder shall procure the services of a qualified independent professional mutually acceptable to the SDC, ECan, CLG and consent holder to review and verify the noise emissions report, record of heavy vehicle movements, the complaints register quarry rehabilitation plan etc, and prepare a report for circulation prior to the CLG meetings, to allow for considered discussion at the meeting.

~~79)~~81) The consent holder shall meet any ancillary costs of the CLG meetings (e.g. meeting invitations; meeting venue; preparation of meeting notes) and facilitation of meetings by an independent chair.

Accidental Discovery Protocol

~~80)~~82) Immediately following the discovery of material suspected to be a taonga, kōiwi or Māori archaeological site, the following steps shall be taken:

- a. All work in the vicinity of the discovery will cease and the Council advised.
- b. Immediate steps will be taken to secure the site to ensure the archaeological material is not further disturbed.
 - i. Notify the Kaitiaki Rūnanga and the Area Archaeologist Heritage New Zealand (. In the case of kōiwi (human remains), the New Zealand Police must be notified. The Kaitiaki Rūnanga and HNZPT will jointly appoint / advise a qualified archaeologist who will confirm the nature of the accidentally discovered material. If the material is confirmed as being archaeological, the consent holder will 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).
 - ii. The consent holder will also 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.
 - iii. 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.
 - iv. Works in the site area shall not recommence until authorised by the Kaitiaki Rūnanga, the HNZPT (and the NZ Police in the case of kōiwi) and any other authority with statutory responsibility, to ensure that all statutory and cultural requirements have been met. The Council shall be advised of the outcomes prior to the recommencement of work, and copies of all relevant approvals shall be provided to the Council for the consent file.
 - v. 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.
 - vi. Although bound to uphold the requirements of the Protected Objects Act 1975, the contractor / works supervisor / owner recognises the relationship between Ngāi Tahu whānui, including its Kaitiaki Rūnanga, and any taonga (Māori artefacts) that may be discovered.

Reporting and Review

~~81)~~83) The consent holder shall maintain a complaints register. The Complaints Register shall include details of when a complaint was received, the steps taken by the consent holder, and any steps taken to address the issue raised. The complaints register shall be

provided to the Team Leader, Compliance, Selwyn District Council (compliance@selwyn.govt.nz) annually, and otherwise shall be available on request.

~~82)~~84) Records of all staff training shall be retained on site and provided to the Council immediately on request.

~~83)~~85) 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 and adverse effects on the environment resulting from the activity; and/or to review the noise limits and traffic effects; and/or
- c. To review the methodology of the operation should noise, dust and nuisance effects become an issue; and/or
- d. To require consistency with any relevant Regional Plan, District Plan, National Environmental Standard, Water Conservation Order or Act of Parliament.

86) The following matters shall be reported on the consent holder's website:

a) Construction progress

b) Locations that are currently being extracted / processed area

c) Locations that are being rehabilitated

d) Daily numbers of trucks through the gate; and

e) Number of truck movements versus the consents limit

APPENDIX 2 – SUPPLEMENTARY DRAFT CONDITIONS – ECAN CONSENTS

CRC192410 Discharge permit to discharge contaminants into air from an industrial or trade premise or process

Monitoring

- 4) Prior to the commencement of ~~quarrying any earthmoving~~ activities, a meteorological station shall be installed at the site with instruments capable of continuously monitoring and providing representative metrological data for the site and surrounding area shall be installed. The instruments shall be capable of continuous measurement and real time logging and reporting of the following:
- a) Wind speed as 1-minute scalar averages with maximum resolution of 0.1 m/s, and accuracy of at least within +/-0.2 m/s, and a stall speed no greater than 0.5 m/s.
 - b) Wind direction as 1-minute ~~scalar~~ vector averages with maximum resolution of 1.0 degree and accuracy of at least within +/- 1.0 degree, and a stall speed no greater than 0.5 m/s.
- ...

Dust Management Plan

- 6) The consent holder shall prepare and implement a Dust Management Plan (DMP) which shall include, but not be limited to:
- ...
- x. A maintenance schedule for meteorological monitoring instruments and ~~PM10~~ particulate monitoring.
- 7) The DMP shall be:
- Developed to include separate Standard Operating Procedures (SOPs), with each of these dedicated to the management of potential dust discharges from specific sources, including but not limited to:
 - ...
 - f. Location and calibration of meteorological and ambient PM10-particulate monitoring equipment; and
 - ...
 - Reviewed (together with the SOPs) every two years, or more frequently if required, by the consent holder in consultation with the Community Liaison Group as required under Condition 64) of Selwyn District Council resource consent RC185627.
- ...
- 8) The DMP shall be reviewed by a Suitably Qualified and Experienced Practitioner (SQEP) in air quality to confirm that the measures proposed in the DMP are appropriate to enable the management of discharge of contaminants into air beyond the boundary to a level that is offensive, objectionable, noxious or dangerous and compliance with all conditions of this consent. A copy of the report prepared by the SQEP under this condition should be provided to the Canterbury Regional Council prior to the DMP becoming operative.

Dust Mitigation

- 17) The consent holder shall take all reasonably practicable measures to minimise the discharge of dust from stockpiles. These shall include but not be limited to:
- ...
- b) All processed and unprocessed aggregate products shall be stockpiled by grade within the quarry floor area.
- ...
- k) All trucks leaving the site that contain sands and fine material shall be covered and Mmeasures will otherwise be taken to ensure trucks leaving the site are appropriately loaded, such as covering ~~sands and fine material and any such load content~~, or spraying loads with water, to reduce the potential for material to be windblown from vehicles when leaving the site;
- ...
- w) Keeping paved roads and yard areas free of dust by either washing or use of vacuum sweepers;
- x) ~~Sections of t~~The internal site access road will be sealed for its entire length and used in conjunction with a rumble strip to assist in removing muddy material from vehicle wheels before entering and exiting the site.
- 19) No extraction shall occur within 100 m of any dwelling existing at [the date of consent being granted], ~~without the prior written consent of the owners and occupiers of these dwellings.~~
- 22) When quarrying and/or clean filling operations cause continuously recorded PM10 concentrations at the site boundary, to reach or exceed the trigger levels listed below, then additional dust control measures shall be implemented:
- a) ~~Ten minute rolling~~ PM10 concentration of 150 micrograms per cubic metre (1-hour average) updated every 10 minutes;
- b) ~~Ten minute rolling~~ TSP concentration of 200 micrograms per cubic metre (1-hour average) updated every 10 minutes;
- c) ~~One hour rolling~~ TSP concentration of 60 micrograms per cubic metre (24-hour average) updated every hour.
- 24) Condition 23**(b)** does not apply when detailed investigations by site personnel, or council enforcement officers, clearly confirms that there are no visible dust impacts or related dust nuisance effects occurring at the downwind sensitive receptor locations. This can include confirmation from occupants that they are not concerned with any nuisance dust effects occurring at the time of investigation and/or else when the criteria listed in Condition 22) are breached.
- 25) Water carts as a back-up will be used, as required, for dust suppression during dry weather, so that dust emissions from working areas, haul roads and stockpiles do not cause breaches of the trigger level listed in Condition 23) or any visible dusty plumes ~~more than 30 m beyond~~ at the site boundary. Water will be available for dust suppression from an existing bore (M36/0257) on the site, in association with stored water (i.e. water tanks or similar vessels) in accordance with the conditions of CRCXXXXXX.

CRC192408 & CRC192409 Land use consent to excavate material and deposit cleanfill material over an unconfined/semi-confined aquifer

- 11) Once aggregate extraction has commenced the consent holder shall provide, at three monthly intervals, and on request from the Canterbury Regional Council Manager

Monitoring and Compliance (The Manager), a laser level survey of all depths of excavated and filled areas on the site to demonstrate compliance with the conditions of this consent. Such a survey shall not be required if there has been no excavation in the preceding three-month period. Alternative methods for achieving this condition, such as GPS depth technology on excavation machinery may be used subject to approval in writing from the Manager.