

## **DRAFT CONDITIONS OF CONSENT**

**COUNCIL:** WAIMAKARIRI DISTRICT COUNCIL  
**RESOURCE CONSENT:** RC215276  
**APPLICANT:** WOODSTOCK QUARRIES LIMITED  
**ADDRESS:** 513 TRIG ROAD, OXFORD, NORTH CANTERBURY  
**DATE:** 28 September 2023  
**VERSION:** 4

Woodstock Quarries Limited has applied for resource consent from the Waimakariri District Council (WDC) and Canterbury Regional Council (CRC) to undertake earthworks (including quarrying) and to establish and operate a landfill and associated activities at 513 Trig Road near Oxford.

The draft conditions of resource consent for the proposed activity have been developed by the Waimakariri District Council and the applicant.

Resource consent has also been sought from the CRC (Consent Numbers CRC214073, CRC214074, CRC214075, CRC214076 and CRC214077).

The conditions of resource consent, as issued by the two organisations, have been prepared in consultation with one another and a consistency of wording and numbering has been incorporated into the two documents including reference to a single Landfill Management Plan for the consented activity. On this basis the conditions of the WDC and CRC consents (including appended schedules) should be read and applied concurrently to ensure consistency of application of requirements.

The schedules appended to, and forming part of the conditions of consent are:

1. Waste Acceptance Criteria
2. Landfill Management Plan Objectives and Contents
3. Peer review panel scope of responsibility

### **Glossary of Terms**

Aftercare	The period of maintenance of the landfill site after the cessation of all waste placing and the completion of all Closure works.
Approval by Council	The process of the Council receipting and accepting Plans, Drawings and Specification.
Certify	The process of a professional reviewer confirming that Plans, Drawings and Specification have been prepared in accordance with recognized standards.
Closure	The process of completing capping and other works upon the completion of the placing of

	waste. Closure may occur in stages prior to the cessation of the placing of all of the waste.
Commencement of physical works	Any works on site associated with the approved resource consent application RC215276, that result in physical changes to the site including earthworks, erection of structures, removal of vegetation and similar activities of a like effect. This definition excludes development of any management plans, baseline testing (including test pits), reporting and any other administrative matters associated with or required by consent conditions.  See Physical Works below
Construction Stage	A defined scope of engineering works that is a discrete part of the overall programme of works. It may include earthworks (including blasting), drainage works, the construction of landfill cells, mechanical works, buildings or other structures, pavement construction, landscaping and any other associated works including alterations to existing site infrastructure. It does not apply to the quarry related activities associated with existing consent RC185244.
Council	Unless otherwise stated, means Waimakariri District Council
Deposition of landfill waste	Placement of landfill waste within developed cells
Deposition date	The date that waste acceptance commences at the landfill. This date is to be notified to the Council in writing.
Earthworks	The same meaning as the District Plan:  <i><u>Earthworks</u> means the disturbance of <u>land</u> by excavating, placing or replacing soil or other material, and includes driveway and access construction, and <u>land</u> drainage works, but excludes <u>earthworks</u> involving:</i>  <i>cultivation for, or harvesting of agricultural and horticultural crops;</i>  <i>domestic gardening;</i>  <i>digging of postholes for the construction of fences;</i>  <i>works for research and monitoring such as coring, <u>water</u> bores and use of piezometers;</i>  <i>maintenance and enhancement of any <u>wetland</u>; or</i>  <i>ripping in of <u>water</u> pipes.</i>  <i>(Operative District Plan definition)</i>

Landfill Footprint	That area for landfill waste deposition depicted by the broken magenta line on Drawing B2 (REV R) Remediated Surface and Toe Bund included in the approved plan set stamped RC215276
Landfill Liner	The construction of the cohesive soil and geosynthetic materials that make up the liner system. It does not include the earthworks required prior to the construction of the liner system.
Landfill Site	That area depicted on Drawing B6 Landfill Site Boundary included in the approved plan set stamped RC215276.
Landfill Waste	For the purposes of this consent, landfill waste means material that complies as acceptable waste listed in the Waste Acceptance Criteria (Schedule 1 of this consent)
Lower wetland	The wetland at the southern boundary of the landfill site associated with Woodstock Stream.
Physical works	Physical works includes all vegetation clearance, earthworks (including quarrying) associated with extending the existing quarry area in the landfill footprint, construction of sediment ponds, bund, clay excavations, internal road formation / upgrade, stockpiles, fill, container transfer area and associated activities under this consent.
Quarrying	<i>means a location or area used for the permanent removal and extraction of aggregates (clay, silt, rock or sand). It includes the area of aggregate resource and surrounding land associated with the operation of a quarry and which is used for quarrying activities.</i>  National Planning Standard definition
Quarrying activities	<i>means the extraction, processing (including crushing, screening, washing, and blending), transport, storage, sale and recycling of aggregates (clay, silt, rock, sand), the deposition of overburden material, rehabilitation, landscaping and cleanfilling of the quarry, and the use of land and accessory buildings for offices, workshops and car parking areas associated with the operation of the quarry.</i>  National Planning Standard definition
Upper wetland	The area of Beech tree dieback located adjacent to the energy dissipator and surface water dispersal zone, as the dissipator and zone are shown on Drawing B2.
Wetland boundary	The point in the transition from wetland to dryland where wetland plant species occur at more than four times their ungrazed height apart.

**RC215276 – Conditions of Consent for Earthworks (including quarrying) and Landfill**

**1. GENERAL MANAGEMENT**

**General Conditions**

- 1.1**     *The activities consented to are limited to earthworks, quarrying and landfill activities described as follows:*

***Earthworks (including quarrying)***

- a) Activities including topsoil and overburden stripping, excavation (including by blasting), loading and transportation of material, processing of aggregate by crushing and screening, removal and storage of material and associated activities, within the landfill site depicted by the orange line shown on Drawing B6 Landfill Site Boundary included in the approved plan set stamped RC215276.***
- b) Construction and maintenance of stockpiles and fill areas (including bunds) in the areas identified on Stockpiles and Fill Drawing F7 stamped RC215276***
- c) Construction and maintenance of the Container Transfer Area and associated erosion and sediment control facilities, shown on Container Transfer/Site Facilities Drawing F1 stamped RC215276***
- d) Formation of new internal roads and upgrade of existing internal roads as required by conditions of this consent***
- e) Extraction of clay resources C1 and C2 on Stockpiles and Fill Drawing F7 stamped RC215276 and remediation of the spent area***
- f) Landfill capping and remediation***
- g) Any other earthworks (including quarrying) activities required as a condition of this resource consent***

***Landfill***

- h) Construction of cells, liner system, leachate systems and any other facilities necessary prior to deposition of landfill waste***
- i) Deposition of landfill waste. For the purposes of this consent, landfill waste means material that complies as acceptable waste material listed in the Waste Acceptance Criteria (Schedule 1 of this consent)***

- j) Deposition of fill, capping and cover material*
- k) Any ancillary activities associated with the operation of the landfill including structures within the container transfer area*

**1.2** *The following conditions refer to management plans and consent drawings. The hierarchy of documents begins with consent conditions, followed by management plans and then consent drawings and approved plans. Where there is doubt, the consent conditions shall prevail.*

**1.3** *All works shall be undertaken in accordance with the consent application documents, including:*

- The Resource Consent Application as updated by the Proposal Description dated 28 September 2023*
- The approved application plans stamped RC215276, and referenced September 2023 Drawing Index Issue 6*
- Schedules 1, 2 and 3 to this approval*

*except where amendments are required by conditions of these consents. In the event of differences or conflict between the measures described in the documents, and the conditions, the conditions shall prevail.*

**1.4** *From the date of this consent until the commencement of physical works, any earthworks (including quarrying) and vegetation clearance within the landfill site and approved under Waimakariri District Council Resource Consent RC185244 shall be restricted to the areas shown as Active Quarry Operations, Active Stockpile Operations, Quarry Expansion Area or Overburden / Stockpile Expansion Area on approved plan WDC RC215276 Operational Works Areas, Drawing A6.*

*NB: the conditions of RC185244 shall continue to be applicable to earthworks over the landfill site, prior to the commencement of physical works associated with RC215267. After commencement of physical works under RC215267, RC185244 shall be restricted to the balance property outside of the landfill site.*

*NB: earthworks outside of the landfill site continue to be subject to RC185244 and all its conditions.*

**1.5** *From the commencement of physical works as approved by this resource consent, any earthworks (including quarrying) and vegetation clearance approved under Waimakariri District Council Resource Consent RC185244 shall be discontinued within the Landfill Site depicted on Drawing B6 included in the approved plan set stamped RC215276. The discontinuation of earthworks under*

*RC185244 shall be confirmed in writing by the Consent Holder to the Planning Manager: Plan Implementation Unit and the consent holder shall apply to Waimakariri District Council for the following variations under section 127 of the Act:*

- Vary condition 1 of RC185244 (approved plan) restricting its spatial application to the area of land outside of the landfill site boundary external area; and*
- Vary condition 7 of RC185244 (hours of operation) to prevent operating the activity on any public holiday; and*
- Vary condition 8 of RC185244 (vehicle movements) to reduce heavy vehicle movements to 85; and*
- Vary Certificate of Compliance RC045058 so that it applies only to the balance of the property outside of the landfill site boundary external area.*

**1.6** *The landfill footprint, where landfill waste is to be deposited, shall not extend beyond the broken magenta line shown on Drawing B2 (REV R) Remediated Surface with Toe Bund included in the approved plan set stamped RC215276.*

**1.7** *The combined landfill and associated activities (sediment ponds, haul roads, container transfer area, clay resource and stockpiles) as identified on the approved plans, shall not extend beyond the orange line shown on Drawing B6 Landfill Site Boundary included in the approved plan set stamped RC215276.*

**1.8** *The maximum rates of material handling at the landfill site shall be:*

*375,000 cubic metres per year of aggregate excavation*

*200,000 cubic metres per year of aggregate processing*

*250,000 tonne per year of landfill waste*

*Except that in the first 24 months following the commencement of physical works, up to 1,000,000m<sup>3</sup> of earthworks and quarrying can be undertaken in the first 12 month period and 500,000m<sup>3</sup> in the second twelve month period as required to develop the landfill and associated infrastructure.*

#### **Bond**

**1.9** *Prior to commencement of physical works, the Consent Holder shall enter into an enforceable written agreement acceptable to the Waimakariri District Council and Canterbury Regional Council, that provides for a bond in favour of both Councils pursuant to sections 108(2)(b) and 108A of the Resource Management Act 1991. The*

*purpose of the bond is for the following:*

- *Secure compliance with all the conditions of consents RC215276, CRC214073, CRC214074, CRC214075, CRC214076 and CRC214077 and enable any adverse effects on the environment resulting from the Consent Holder's activities, and not authorised by a resource consent or rule in any relevant District or Regional Plan, to be avoided, remedied or mitigated. This will include a provision for plausible risks or events that could potentially arise and require remedial works to prevent adverse environmental effects (Compliance) including a provision for any on-site and off-site ecological enhancement or restoration to the extent that it is required in the response to the works that have occurred as part of giving effect to the consent.*
- *Secure the completion of closure and rehabilitation in accordance with the approved Aftercare section of the Landfill Management Plan including any future approvals, resource consents acquired and obtained to cover aftercare, including reasonable provision for early closure events and associated costs in the event of abandonment of the site (early closure):*
- *Ensure the performance of any monitoring obligations of the Consent Holder under this consent post closure, as well as any site aftercare obligations such as care of the landfill cap and pollution prevention infrastructure (Aftercare).*

**1.10** *The amount (quantum) of the bond shall be adjusted over time as determined by any review conducted in accordance with Condition 1.16, provided that at any given time the amount shall be sufficient to cover the estimated cost at that time (including any contingency) of the bond components outlined in Condition 1.11.*

**1.11** *The quantum for the components in Condition 1.10 shall be determined as follows:*

***Part 1 – Compliance***

*The Part 1 component of the bond shall be derived based on reasonably foreseeable contingency scenarios defined in Appendix 7 (Environmental Risk Management Assessment Report Issue 2) of the Resource Consent Application. This component of the bond shall be required for as long as the landfill activity is receiving landfill waste.*

*The amount shall include provision for the cost of monitoring, site management and regulator inputs required by the resource consents.*

***Part 2 – Closure***

*The Part 2 component of the bond shall be calculated by determining the likely maximum cost (including a 10% contingency) to close and secure the site at any point within a 5 year period following the review date. The Part 2 bond quantum will be derived in current day dollars. Where a risk based approach is adopted to assess potential remedial or other costs associated with the bond quantum, then costs shall be assessed to the 90% confidence limit using appropriate engineering methodology.*

*The amount shall include reasonable provision for all works necessary to close the site, including but not limited to the following:*

- *Allowance for repair of damage associated with plausible early closure scenarios including, if applicable, repair of damage due to earthquake or extreme weather events.*
- *Allowance for remediation of any adverse effect on the environment that may arise from the site relating to plausible early closure scenarios.*
- *Allowance for the full extent of the works needed to complete final capping, revegetation, leachate and gas collection infrastructure and removal of any redundant site infrastructure.*
- *Allowance for any other rehabilitation work required by the sections on closure and aftercare in the Landfill Management Plan.*
- *Allowance for the cost of monitoring, site management and regulator inputs required by the resource consents during closure works.*

### ***Part 3 – Aftercare***

*The Part 3 component of the bond shall be calculated as the Net Present Value of all aftercare costs, including compliance, and shall be based on the cost elements as set out in the Ministry for the Environment Landfill Full Cost Accounting Guide March 2004. Aftercare costs shall be assessed as series of individual cost items, appropriately assessed over the duration of the aftercare period, with the amounts to be inclusive of contingency and a reasonable allowance for capital works or capital equipment replacement. This component will be developed using commercial financial parameters appropriate at the time of the initial assessment subject to amendment by scheduled review.*

- 1.12** *The amount of the bond required by Condition 1.10 shall be initially set on the basis of cost estimates prepared by the Consent Holder and detailed in a bond report. The bond report shall be submitted to the Councils for review and approval prior to the commencement of placement of waste at the site. The amount of the bond shall cover costs associated with the three components defined in Condition 1.11.*



- 1.13** *An experienced practitioner shall conduct the assessment required to prepare the bond report. The method of conducting the bond assessment shall be documented in the bond report. The bond report shall include all assumptions made in completing the quantitative risk assessment.*
- 1.14** *The Consent Holder's bond shall be in a form agreed between the Consent Holder and the Councils and shall, subject to these conditions, otherwise be on terms and conditions agreed between them. The Consent Holder's bond shall name the Councils as the parties able to draw on the bond. The bond shall be available to the Councils regardless of whether the qualifying event for payment of the bond is the result of any deliberate or inadvertent act of the Consent Holder or its agents.*
- 1.15** *Should the Consent Holder and the Councils be unable to reach mutual agreement on the form, terms and conditions, or amount of the bond, in either the establishment of the bond in accordance with Condition 1.9 or the quantum for the components set out in condition 1.11 or in subsequent review of the bond or in terminating the bond, then the matter shall be referred to arbitration in accordance with the provisions of the Arbitration Act 1996. Arbitration shall be commenced on advice by either party that the bond is disputed, such notice to be given within 14 days of receipt by the Councils of the bond established or proposed to be established by the Consent Holder. If the parties cannot agree upon an arbitrator within 7 days of receiving advice that the bond is in dispute, then an arbitrator shall be appointed by the President of Engineering New Zealand. Such arbitrator shall give an award in writing within 30 days after his/her appointment, unless both parties mutually agree that time shall be extended. The parties shall bear their own costs in connection with arbitration. In all other respects, the provisions of the Arbitration Act 1996 shall apply. If the decision of the arbitrator is not made available by the 30th day after appointment of the arbitrator, then the bond shall be fixed by the Councils, until such time as the arbitrator does make his/her decision. The Consent Holder shall establish or re-establish the bond in accordance with the arbitrator's decision within 60 days after the decision.*
- 1.16** *The quantum of all components of the Consent Holder's bond shall be reviewed every five years from the first placement of landfill waste at the landfill, by means of review of the bond report. If, on review, the quantum of the bond to be provided by the Consent Holder varies by more than 10% of the sum secured by the current bond, then within 60 days of the Consent Holder being given written notice by Councils of the new amount to be secured by the bond, the*

*Consent Holder shall execute and lodge with the Councils a variation of the existing bond or a new bond for the amount fixed on review by the Councils.*

**1.17** *The Consent Holder may apply to have the bond amended, discharged or reviewed at any time, in which case the Councils shall advise the Consent Holder of their decision on the application within 60 days of them receiving the application. An application by the Consent Holder to amend the amount of the bond shall be supported by a bond report, giving consideration to the following:*

- Environmental performance, including verification that groundwater and surface water are not polluted as a result of the landfill activities;*
- Extent to which the planting programme has been completed;*
- Degree of waste stabilisation, as reflected in the results of monitoring of settlement, landfill gas and leachate; and,*
- Integrity of closure works, including the landfill cap and surface water controls.*

**1.18** *The bond shall continue to be maintained in favour of both Councils throughout the aftercare period and shall be adjusted at the periodic reviews to align with future conditions at the site following closure. Unless otherwise defined in these conditions, the aftercare period commencement date shall be no earlier than the date of completion of capping of the final landfill cell, or the date of closure following abandonment prior to the final landfill cell being completed. If the landfill has been monitored and a bond report approved by both Councils affirms that there are no existing or predicted adverse environmental effects from the landfill operation, then both Councils may at their discretion discharge any remaining component(s) of the bond. The bond period may at the Council's discretion be extended beyond 30 years following site closure, if the bond report at that time indicates that the landfill continues to pose an ongoing unacceptable risk to the environment such that there is an ongoing requirement for aftercare.*

**1.19** *All costs relating to the bond including the costs of the consent authorities and their technical experts shall be paid by the Consent Holder, other than in relation to arbitration (see above), in which case both parties shall bear their own costs.*

**1.20** *The Consent Holder must supply a separate closure and aftercare plans within five years of the first deposition of waste within the landfill and update the plans every five years. The plans shall consider the surrounding environment and any changes that may have occurred over the five years as well as the scope outlined in*

***Schedule 2. The plans shall be reviewed by the peer review panel every five years prior to being sent to the Councils for approval.***

***Peer Review Panel***

***1.21 The Consent Holder shall establish, at its own cost, a Peer Review Panel, to review the design, construction, operation, and after-care of the Landfill and all relevant management plans and drawings required under RC215276, CRC214073, CRC214074, CRC214075, CRC214076, and CRC214077 that are required to be approved by Council to assess whether or not the design meets industry and professional standards and work is undertaken by appropriately qualified personnel in accordance with good practice. The Peer Review Panel shall operate in accordance with the scope of responsibilities set out in Schedule 3 attached to this consent and comprise at least two independent persons who shall be:***

- experienced in landfill design, construction, and management***
- experienced in landfill geotechnical, groundwater and surface water aspects***
- recognised by their peers as having such experience, knowledge, and skill; and***
- approved in writing by Waimakariri District Council and Canterbury Regional Council***

***1.22 Prior to submission of any document in relation to waste containment, waste management and landfilling, for the approval of the Planning Manager: Plan Implementation Unit at Waimakariri District Council, the Consent Holder shall obtain and provide written comment from the Peer Review Panel.***

***1.23 The Peer Review Panel shall prepare a six monthly report for the Consent Holder on the adequacy of the following matters:***

- PRP membership and deliberations***
- matters reviewed and reported***
- approvals given***
- geotechnical investigations***
- engineering final design***
- construction activity***
- construction quality assurance***
- lining system performance***
- waste pile stability***
- land movement and stability***
- waste containment***
- leachate containment and collection***
- leachate handling and disposal on site***
- landfill gas capture***

- *landfill gas monitoring of fugitive emissions and subsurface migration*
- *odour*
- *groundwater and surface water quality*
- *failures and damage relating to any above topic, and response by WQL*

- 1.24** *Where the Peer Review Panel does not have expertise in any of the areas it is required to report on, as detailed above, it must with the agreement of the consent holder and Waimakariri District Council, engage the services of an appropriate expert to report on the relevant matter to the Peer Review Panel. The report shall form part of the review provided by the Peer Review Panel as required by this condition.*
- 1.25** *Copies of all reports shall be sent to the Consent Holder, the Waimakariri District Council, and the Canterbury Regional Council by 31 August each year, unless otherwise agreed in writing with the Councils.*
- 1.26** *The Consent Holder shall action all recommendations and/or directions of the Peer Review Panel.*

#### ***Landfill Management Plan***

- 1.27** *A Landfill Management Plan (LMP) shall be prepared by a suitably qualified person prior to commencement of physical works and shall be submitted to the Planning Manager: Plan Implementation Unit at WDC for approval. The LMP and any revisions shall include the best practicable options for achieving compliance with the conditions of this consent RC215276 along with CRC214074, CRC214075, CRC214076 and CRC214077. The consent holder shall implement the approved LMP.*

*Advice Note: The approval process is confined to confirming that the Landfill Management Plan adequately gives effect to the conditions of RC215276 along with CRC214074, CRC214075, CRC214076 and CRC214077.*

- 1.28** *The LMP required in the condition above, may be prepared, submitted and approved on a partial basis (ie: section by section) in order to meet the requirements of other conditions of this consent.*
- 1.29** *The LMP shall as a minimum:*

- *Achieve the objectives and contents set out in schedule 2 to these conditions of consent*
- *Describe the methodology for giving effect to consent conditions*
- *Include details of the steps to be taken to correct any element of non-compliance*

**1.30** *The format of the LMP shall be a series of sections to address the requirements of the Waimakariri District and Canterbury Regional Councils resource consents (including conditions), in general accordance with the following section topics. The LMP and all subsections of the LMP must be prepared in accordance with the relevant section objectives and contents framework as set out in schedule 2 as attached to this consent, and contain, as a minimum, specific management plans as set under the section headings in the LMP sections and contents table.*

<b>LMP Sections and Contents Table</b>	
<b>Section</b>	<b>Title</b>
<b>1</b>	<b>General (WDC and CRC)</b>
<b>2</b>	<b>Site Management (WDC and CRC)</b>
<b>3</b>	<b>Site Development</b> <ul style="list-style-type: none"> <li>- <b>Construction and Environmental Management Plan (WDC and CRC)</b></li> <li>- <b>Landfill Liner Quality Plan (CRC)</b></li> </ul>
<b>4</b>	<b>Landfill Operation</b> <ul style="list-style-type: none"> <li>- <b>Transport Management Plan (WDC)</b></li> <li>- <b>Landfill Pest Management Plan (WDC)</b></li> <li>- <b>Litter Management Plan (WDC and CRC)</b></li> </ul>
<b>5</b>	<b>Waste Acceptance (WDC and CRC)</b>
<b>6</b>	<b>Air Quality</b> <ul style="list-style-type: none"> <li>- <b>Air Quality Management Plan (WDC and CRC)</b></li> </ul>
<b>7</b>	<b>Landfill Gas (CRC)</b> <ul style="list-style-type: none"> <li>- <b>Landfill Gas Management Plan</b></li> </ul>
<b>8</b>	<b>Ecological</b> <ul style="list-style-type: none"> <li>- <b>Ecological Impact Assessment (WDC and CRC)</b></li> <li>- <b>Indigenous Vegetation (and habitat of fauna) Restoration Plan (WDC and CRC)</b></li> </ul>

	<ul style="list-style-type: none"> <li>- <i>Indigenous Fauna Management Plan (WDC and CRC)</i></li> <li>- <i>Wetland Management Plan (CRC)</i></li> <li>- <i>Pest Management Plan (WDC and CRC)</i></li> </ul>
<b>9</b>	<b>Landscape</b> <ul style="list-style-type: none"> <li>- <i>Ecological Impact Assessment (WDC and CRC)</i></li> <li>- <i>Landscape Concept Plan (WDC)</i></li> <li>- <i>Landscape Management Plan (WDC)</i></li> </ul>
<b>10</b>	<b>Groundwater</b> <ul style="list-style-type: none"> <li>- <i>Groundwater Monitoring and Response Plan (CRC)</i></li> </ul>
<b>11</b>	<b>Surface Water</b> <ul style="list-style-type: none"> <li>- <i>Surface Water Monitoring and Response Plan (CRC)</i></li> </ul>
<b>12</b>	<b>Leachate</b> <ul style="list-style-type: none"> <li>- <i>Leachate Management Plan (CRC)</i></li> </ul>
<b>13</b>	<b>Erosion and Sediment Control</b> <ul style="list-style-type: none"> <li>- <i>Erosion and Sediment Control Management Plan (WDC and CRC)</i></li> <li>- <i>Site Specific Erosion and Sediment Control Plan (WDC and CRC)</i></li> <li>- <i>Erosion and Sediment Control Maintenance Plan (WDC and CRC)</i></li> </ul>
<b>14</b>	<b>Emergency response</b> <ul style="list-style-type: none"> <li>- <i>Site Emergency Management Plan (WDC and CRC)</i></li> <li>- <i>Hazardous Substance Management Plan (WDC and CRC)</i></li> </ul>
<b>15</b>	<b>Closure</b> <ul style="list-style-type: none"> <li>- <i>Final Closure Plan (WDC and CRC)</i></li> </ul>
<b>16</b>	<b>Aftercare</b> <ul style="list-style-type: none"> <li>- <i>Aftercare Management Plan (WDC and CRC)</i></li> </ul>

**1.31 With the agreement of the Planning Manager: Plan Implementation Unit at Waimakariri District Council and Environment Canterbury the LMP may be amended by the consent holder to improve management of earthworks (including quarrying) and land fill operation and ensure the conditions of consent are complied with. In addition to the requirement for endorsement from the Independent Review Panel, the**

*revised LMP and the name of the person preparing or reviewing any part of the LMP and their qualification shall be provided to WDC, Attention: Planning Manager: Plan Implementation Unit, for approval. Once approved, the amendments shall be deemed to be part of the LMP.*

**1.32** *A copy of the LMP shall be made available to all persons authorised to carry out activities on the site.*

**1.33** *Where there is a conflict between the LMP and the consent conditions, the consent conditions shall prevail.*

### **Community Engagement**

**1.34** *Prior to the deposition of waste, the consent holder shall establish and operate, for the life of the activity, a website, which enables the community to gain full access to the resource consent application, further information, approval decision (including conditions), all information required to be submitted to Planning Manager: Plan Implementation Unit at Waimakariri District Council as part of these conditions of consent and copies of the Councils approvals. This includes the Landfill Management Plan.*

**1.35** *The consent holder's website, as required by the condition above, shall include contact details for a representative of the landfill to respond to public queries including for operation related issues and emergency events. If multiple representatives are appointed, a documented chain of accountability shall be provided detailing who is responsible for site maintenance.*

**1.36** *The Consent Holder shall, in consultation with mana whenua, the Oxford-Ohoka Community Board and the owners and occupiers of the four adjacent neighbouring sites establish and maintain a Community Liaison Group (CLG). The consent holder shall invite:*

- *A Chair, voted in from and by the CLG members*
- *Two representatives from the Oxford-Ohoka Community Board*
- *One or more representative from Ngāi Tūāhuriri Rūnanga*
- *One person from each of the four adjoining properties surrounding WQL property at 513 Trig Rd*

**1.37** *The role of this group will be to bring feedback from the community to the consent holder, disseminate information about the landfill to*

*the local community, and to hear concerns of local residents relating to the land fill and receive, discuss and consider material.*

- 1.38** *The Consent Holder shall take all practicable steps to ensure that the CLG comprises up to seven representatives (including the chair but not including the consent holder). The consent holder shall host meetings of the CLG on a quarterly basis (or less frequently as determined by the CLG). Meeting minutes shall be taken by the consent holder and distributed to the members of the CLG. The consent holder shall cover any associated costs of hosting the meeting, including reasonable costs associated with mana whenua participation.*

*Advice note: meetings of the CLG will be open to the public to attend but without member rights and voting rights and will be subject to the meetings protocols set by the chairperson.*

- 1.39** *The Consent Holder shall present information at meetings of the CLG including:*
- *Any proposed changes to the management plans*
  - *Any new resource consent applications, including variations to existing consents, prior to lodgement*
  - *Operation aspects of the landfill*
  - *The results of monitoring required and a condition of consent*

*And will provide the opportunity for the CLG to give feedback on these matters.*

#### **Access to Site**

- 1.40** *Prior to the deposition of landfill waste, the consent holder shall construct and maintain a stock proof fence to prevent ready access of unauthorised persons or stock into the Landfill Site area.*
- 1.41** *The landfill site shall not be available to the general public for either the delivery of landfill waste or the collection of quarry material. Landfill waste shall be delivered to the landfill footprint only by parties who have been given prior written authorisation by the Consent Holder.*
- 1.42** *Appropriate fencing, lockable gates and on-site signage shall be erected, reviewed and approved by the Planning Manager: Plan Implementation Unit at Waimakariri District Council (as part of*



*engineering approval or relevant management plans) prior to the deposition of landfill waste. All entrances to the site shall be securely locked when the site is not supervised.*

#### **Accidental Discovery**

##### **1.43 During earthworks (including quarrying):**

- a) any activity which may modify, damage or destroy a pre-1900 archaeological site or material must follow the archaeological authority process under the Heritage New Zealand Pouhere Taonga Act 2014. An archaeological authority is required from Heritage New Zealand to modify, damage or destroy any archaeological site, whether recorded or not in the New Zealand Heritage List/Rārangi Kōrero.*
- b) In the event of accidental discovery of any archaeological material, all works must cease immediately in the part of the site known, or suspected, to be an archaeological site.*
- c) The Canterbury Regional Council, Heritage New Zealand Pouhere Taonga and Papatipu Rūnanga, as well as the New Zealand Police in the case of discovery of kōiwi/human bones, must be informed immediately of the disturbance, and the archaeological authority process under the Heritage New Zealand Pouhere Taonga Act 2014 must be followed.*
- d) In the event of the accidental discovery of Māori archaeological sites or material, the attached accidental discovery protocol for Māori archaeology must be followed in addition to the process under the Heritage New Zealand Pouhere Taonga Act 2014.*
- e) To ensure that all statutory and cultural requirements have been met, any works in the part of the site subject to the archaeological discovery must not recommence until authorised by the Canterbury Regional Council and:
  - i. Upon completion of the archaeological authority process referred to under (c); and*
  - ii. In the event of the accidental discovery of Māori archaeological sites or material, and in addition to (c) upon completion of the process referred to under (d); and*
  - iii. In the event of the discovery of kōiwi/human bones, the New Zealand Police.**

#### **Review**

- 1.44** *In accordance with Section 128 and 129 of the Resource Management Act 1991, the Council may serve notice on the consent holder of its intention to review, in whole or in part, the conditions of this resource consent in order to deal with any adverse effects on the environment which may arise from the exercise of this consent and which it is*

*appropriate to deal with at a later time. A review may be initiated within any six-month period from the date the consent was given effect to, for the duration of this consent. Reviews shall be at the Consent Holders expense.*

## **2. SITE MANAGEMENT**

### ***General***

***2.1 Vehicle speeds on internal access roads shall be restricted to 15km/hr, and advised with signage at appropriate intervals.***

### ***Site Emergency Management***

***2.2 A site emergency management plan shall be prepared by a suitably qualified and experienced person, and shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to any physical works commencing onsite. The plan shall become a section of the LMP. The emergency management plan shall include, but not be limited to the matters identified in the Site Emergency Management objectives and contents within schedule 2.***

### ***Monitoring***

***2.3 Compliance with conditions may be verified by inspection by a Council Officer pursuant to Section 35(2)(d) of the Resource Management Act 1991.***

***2.4 Should an inspection be required, the Consent Holder shall pay to the Council charges on an at cost basis pursuant to Section 36(1)(c) of the Resource Management Act 1991 to enable the Council to recover its actual and reasonable costs in carrying out the inspections.***

***2.5 The Council, on an actual cost basis, shall audit compliance with the conditions of consent by both site inspections and checking of associated documentation to ensure the work is completed in accordance with the approved plans and specifications and to the Council's standards. The Council will undertake inspections and checking.***

#### ***List of inspections:***

- Internal roading upgrade; on completion***
- Storm water; on completion***

- *Fencing internal and perimeter; on completion*
- *Container Transfer Area and erosions and sediment control area earthworks; on completion*
- *Clay resource and fill area; during extraction and on completion*
- *Upgrade of rights of way; on completion*

#### ***Queries and Complaints***

- 2.6 A complaints procedure shall be prepared by a suitably qualified and experienced person and shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to any physical works commencing onsite. The procedure shall become a section of the LMP. The complaints procedure shall include, but not be limited to the matters identified in the Site Management objectives and contents within schedule 2.***
- 2.7 The Consent Holder shall notify the Canterbury Regional Council and the Planning Manager: Plan Implementation Unit at Waimakariri District Council of any complaints received by the Consent Holder regarding excessive speed, as soon as practicable and no longer than one working day after the complaint is received.***
- 2.8 Following advice to Council of receipt of a complaint on excessive speeds, the Consent Holder will provide the following details within 14 days of the complaint being received:***
- *the details of the complaint and associated investigation (including the date and time of the complaint / issue, location of excessive speed and haulage company involved)*
  - *outcome of the investigation*
  - *the outcome of any resulting disciplinary procedures and actions taken*
- 2.9 The Consent Holder shall notify the Canterbury Regional Council and the Planning Manager: Plan Implementation Unit at Waimakariri District Council of any complaints received by the Consent Holder regarding odour or dust as soon as practicable once the complaint is received.***
- 2.10 If complaints regarding objectionable or offensive odour or dust are received by the Consent Holder, the Consent Holder shall record the following details in a complaint log:***

- *type and time of complaint*
- *name and address of complainant (if available)*
- *location from which the complaint arose*
- *wind direction at the time of complaint*
- *the likely cause of the complaint*
- *the response made by the Consent Holder*
- *action taken or proposed because of the complaint*
- *and be made available to the consent authority on request*

### **3. SITE DEVELOPMENT**

#### ***General***

**3.1** *All stages of design and construction shall be in accordance with the following standards (and their latest amendments) where applicable:*

- *Waimakariri District Council Engineering Code of Practice*
- *Waimakariri District Council Stormwater Drainage and Watercourse Protection Bylaw (2018)*
- *Erosion & Sediment Control Toolbox For Canterbury*
- *NZS 4431:2022 Engineered fill construction for lightweight structures*
- *National Code of Practice for Utility Operator's Access to Transport Corridors (10 September 2015 with amendment 16 September 2016)*
- *MOTSAM – Manual of Traffic Signs and Markings*
- *New Zealand Transport Agency standards*
- *Relevant Austroads Guides & Standards*
- *NZS 6803:1999 Acoustics for Construction Noise*
- *German DIN 4150 Standard, Part 3 (1999), Effects of Vibration on Structures*
- *New Zealand Drinking Water Standards 2005 (Revised 2018)*
- *New Zealand Pipe Inspections Manual*
- *Compliance Document for New Zealand Building Code Clause F4 Safety from Falling – Third Edition.*
- *SNZ PAS 4509:2008 New Zealand Fire Service Fire Fighting Water Supplies Code of Practice*
- *Health and Safety at Opencast Mines, Alluvial Mines and*

**Quarries (Nov 2015), Section 05 Planning for Roads and Vehicle  
Operating Areas**

- 3.2** *Noise generated from activities relating to construction of the landfill and any upgrading of existing roads, shall comply with the provisions of NZS6803:1999 "Acoustics-Construction Noise".*

**Construction Environmental Management**

- 3.3** *A construction environmental plan shall be prepared by a suitably qualified and experienced person and shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to commencement of physical works. The plan shall become a section of the LMP. The construction environmental management plan shall include, but not be limited to the matters identified in the Site Development objectives and contents within schedule 2.*

**Construction Management**

- 3.4** *The Consent Holder shall provide certification from a Chartered Professional Engineer and a Producer Statement (PS1) that existing internal access roads are in general accordance with the Health and Safety at Opencast Mines, Alluvial Mines and Quarries (Nov 2015), Section 05 Planning for Roads and Vehicle Operating Areas.*
- 3.5** *Any new internal roading shall be designed by a suitably qualified engineer for approval of the Planning Manager: Plan Implementation Unit at Waimakariri District Council prior to commencement of physical works, in accordance with Health and Safety at Opencast Mines, Alluvial Mines and Quarries (Nov 2015), Section 05 Planning for Roads and Vehicle Operating Areas. The design shall be certified by a Chartered Professional Engineer and a Producer Statement - Design (PS1), report and plans (if applicable) shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval, in writing, prior to any works commencing.*
- 3.6** *The consent holder shall upgrade the rights of way between Trig Rd and the site to provide a minimum carriageway width of 6.0 metres and by upgrading to provide an aggregate base.*

**Fire Fighting**

- 3.7** *Specific fire management requirements shall be developed on site; including alternatives to the use of water to extinguish a fire in the landfill, taking into account that water could have a consequence of producing*

*significant amounts of LFG including hydrogen sulphide that may affect site worker safety and the longer-term offsite odour impacts. Firefighting provisions shall be established onsite, prior to placing landfill material, which include as a minimum;*

- 125,000L of stored water on site feeding to a hydrant system, available at all times*
- A 10,000L water cart with pump and hose for firefighting on site at all times*
- A fire break surrounding the site, to be established prior to deposition of waste*
- The ability to utilise the heavy machinery on site to support firefighting operations*
- Adequate supply of alternative fire extinguishers to avoid LFG production*

**3.8** *Prior to the deposition of landfill waste the consent holder shall submit to the Planning Manager: Plan Implementation Unit at Waimakariri District Council a report prepared by a suitably qualified person which demonstrates that the installed fire management resources provide sufficient water volume, pressure and flows in accordance with NZFS Firefighting Water Supplies Code of Practice SNZ PAS 4509:2008, and address alternative retardant resources.*

**3.9** *The consent holder shall provide records to the WDC Planning Manager: Plan Implementation Unit of correspondence demonstrating consultation with Fire and Emergency New Zealand and their agreement that the fire management system is appropriate.*

#### ***Vegetation Clearance Management***

**3.10** *No vegetation or habitat shall be cleared within the landfill site prior to an Ecological Impact Assessment being completed, and the results submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council. Following an Ecological Impact Assessment being undertaken, condition 8 shall be applicable.*

**3.11** *No vegetation shall be burned within the landfill site following the deposition of landfill waste.*

#### **4. LANDFILL OPERATIONS**

##### ***General***

- 4.1** *There shall be no earthworks (including quarrying) or vegetation clearance within 50m of a water body inside the Landfill Site Boundary except that earthworks and vegetation clearance may take place up to 10m away from the Wetland Boundary of the Upper Wetland.*
- 4.2** *Internal slopes identified in daily operational inspections as a potential risk, shall be immediately referred to a suitably qualified and experienced chartered professional engineer for assessment. Any slopes which are assessed as being at risk of landslides which could affect internal roading, infrastructure, storm water flow paths, site access, loading and manoeuvring areas, landfilling operations or ancillary buildings shall be either avoided, remediated or mitigated.*
- 4.3** *Earthworks, quarrying and landfill activities shall not exceed the following noise limits within measurement time intervals in the time-frames stated at any point within the notional boundary of any dwellinghouse in the Rural Zone;*
- a.** *Daytime: 7am to 7pm Monday to Saturday, and 9am to 7pm Sundays and Public Holidays: 50dBA L<sub>10</sub>.*
  - b.** *Other times: 40dBA L<sub>10</sub>.*
  - c.** *Daily 10pm-7am the following day: 70dBA L<sub>max</sub>.*

##### ***Hours of operation***

- 4.4** *The operation of the consented activity shall not be undertaken on public holidays and shall be limited to the following hours:*

##### **Transport Operations Beyond the Boundary of the Site**

- *Between the hours of 7am and 6pm (Monday to Thursday)*
- *Between the hours of 7am and 5pm (Friday)*
- *Between the hours of 7am and 11am (Saturday)*

##### **Earthworks, quarrying and Landfill operations**

- *Between the hours of 6am and 8pm (Monday to Friday)*
- *Between the hours of 7am and 12pm (Saturday)*

### ***Transport Management***

- 4.5** *The maximum number of heavy vehicle movements for the combined landfill and earthworks (including quarrying) activities shall be 100 per day.*
- 4.6** *The maximum number of light vehicle movements for the combined landfill and earthworks (including quarrying) activities shall be 16 per day.*
- 4.7** *A Transport Management Plan (TMP) shall be prepared by a suitably qualified person, and submitted to WDC Manager of District Plan Implementation for approval prior to physical works commencing onsite. The plan shall become a section of the LMP. The transport management plan shall include, but not be limited to the matters identified in the Landfill Operations objectives and contents within schedule 2.*
- 4.8** *Heavy vehicles arriving from and leaving to the south via Waimakariri Gorge Bridge shall follow a one-way routing plan set out in the Traffic Management Plan.*
- 4.9** *Heavy vehicles on the one-way route to or from the south shall observe a speed limit of 60km/h on Waimakariri Gorge Road, Harmans Gorge Road, Trig Road and Woodstock Road (between Harmans Gorge Road and Trig Road).*
- 4.10** *In the event heavy vehicle movements are limited or restricted from crossing the Waimakariri Gorge Bridge (eg: north to south, south to north, or in both directions), the heavy vehicle movements shall relocate to travelling via an alternative route determined in conjunction with and approved by Waimakariri District Council's Roading Manager. This includes heavy vehicle traffic travelling to and from the combined earthworks (including quarry) and landfill operations.*
- 4.11** *The consent holder shall update the Road Maintenance Agreement, held between WQL and WDC, to include the following;*
- Upkeep of Trig Road between the site access and Woodstock Road; and*
  - Upkeep of Woodstock Road (unsealed section approximate length of 1,350m east from the Trig Rd intersection).*
- The written agreement shall be signed and executed by both parties prior to physical works commencing.*
- 4.12** *The Consent Holder shall record the number and type of vehicle movements to and from the site on a daily basis and include the direction of travel. This*



*record shall be made available to the Waimakariri District Council on request.*

- 4.13** *The Consent Holder shall be responsible for the monitoring of quarry and waste haul truck speeds through the truck's GPS systems, on a random basis. These speed records will be retained for up to 6 months and made available to Council upon request.*
- 4.14** *The Consent Holder shall require the owners of the quarry and waste haul trucks to provide speed data of trucks accessing the site, and have appropriate disciplinary procedures in the event of repeated non-compliance of speed limits.*
- 4.15** *Engineering plans shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval, in writing, prior to works commencing, in relation to works required in the following road upgrading conditions.*
- 4.16** *The consent holder shall upgrade the intersection of Woodstock Road, Trig Road and Waimakariri Gorge Road to include the following;*
- *extending the culvert by 1m on the north-east corner*
  - *install a sight rail in accordance with WDC Engineering Code of Practice Standard Drawing 600:241 (issue B).*
  - *minor reshaping followed by resurfacing of the intersection with argillite, across the width of the intersection*
- 4.17** *The consent holder shall upgrade Trig Road as follows;*
- *widen Trig Road to 7m in width from the intersection with Woodstock Rd to the site access.*
  - *position a 'road narrows – both sides' sign on both sides of the dip*
  - *remove trees on the inside of the bend where the dip is located*
  - *maintain tree trimming on the inside of the bend where the dip is located for on-going visibility*
- 4.18** *The consent holder shall resurface the following roads with argillite;*
- *the portion of Trig Rd from the intersection with Woodstock Rd to the site accessway*
  - *the unsealed portion of Woodstock Road east of the Trig Road intersection*
- 4.19** *The consent holder shall upgrade the western corner (south of Waimakariri Gorge Road and west of Harmans Gorge Road) of the Waimakariri Gorge Road/Harmans Gorge Road intersection to meet WDC Engineering Code of Practice Standard Drawing 600:261A (Issue F). The design scope (including*

*width of seal, need for kerb and channel or other vertical delineation etc) can be agreed at engineering approval stage with sufficient detail to avoid impacting the existing tree and / or underground services.*

- 4.20** *The consent holder shall upgrade the western corner of the Depot Road/Harmans Gorge Road intersection to meet WDC Engineering Code of Practice Standard Drawing 600:262A (Issue F).*
- 4.21** *The consent holder shall position a 'stop' control sign on the site access to Trig Road.*
- 4.22** *The vehicle crossing to the site (on the northern side of Trig Road) shall be upgraded to meet WDC Engineering Code of Practice Engineering Code of Practice Standard Drawing 600:217 (Issue D), except that only the west side requires upgrading to include a 7m radius and taper on the inside bend. The gate and boundary fence shall be relocated on both sides of the crossing. The consent holder shall confirm if a culvert is necessary at engineering approval.*
- 4.23** *The consent holder shall, at its sole cost, upgrade the two existing entry road accesses to the Narbey land from the rights of way (the improved accesses) to meet the following requirement;*
- The improved accesses shall be constructed to new set back gate positions nominated by the Narbeys*
  - The improved accesses shall include stormwater diversion as required to provide for reasonably expected stormwater runoff and to maintain the improved accesses in usable condition.*
  - The improved accesses shall be capped in aggregate and otherwise built in a good tradesperson-like manner.*
  - The land areas beside the improved accesses shall be reshaped to ensure that no side access to the repositioned lockable gates can be gained by others.*
- 4.24** *The consent holder shall ensure that its gate on Trig Road is locked at all times outside of quarry and landfill operating hours.*

#### ***Refuse Placement***

- 4.25** *No landfill material shall be stockpiled or held on site overnight, apart from within the landfill itself. This does not include landfill material within approved containers stored within the container transfer area for a period not exceeding 48 hours.*

- 4.26** *A wheel wash for the waste mule trucks must be installed at the entry and exit point of the current operational waste cell and appropriately utilized to avoid distribution of landfill waste material. No mule vehicles, or other vehicles with access to the landfill face, shall leave the site without first being cleaned with pressure wash and wheel wash, to avoid landfill waste leaving the site.*

#### **Cover**

- 4.27** *The uncovered areas of a working face shall be kept to a practicable minimum and shall not exceed 900m<sup>2</sup> until such time that proven management capability is in place. Following written agreement from Canterbury Regional Council and Waimakariri District Council that competent landfill working face is in place, the landfill working face may be increased to a maximum of 1500 square metres at any time.*
- 4.28** *At the end of each day the working face of the landfill (deposited landfill waste) shall be temporarily capped with daily cover to the minimum requirements:*
- soil cover to a minimum depth of 150 millimetres; or*
  - an alternative cover that performs to an equivalent or higher standard as a 150 millimetres soil cover.*
- 4.29** *There shall be no burning of landfill waste on site, and no burning of any material at all within the landfill site.*

#### **Litter**

- 4.30** *A litter management plan shall be prepared by a suitably qualified person, and submitted to WDC Manager of District Plan Implementation for approval prior to physical works commencing onsite. The plan shall become a section of the LMP. The litter management plan shall include, but not be limited to the matters identified in the landfill operation objectives and contents within schedule 2.*
- 4.31** *The consent holder shall ensure that litter from its site is managed so that there are no nuisance deposits of litter beyond the landfill tip face. There shall be a minimum of weekly monitoring and if required, clean up, together with monitoring and cleanup following any wind event which causes cessation of landfill operations.*

- 4.32** *The Consent Holder shall, as necessary, control wind blown litter by the erection of litter control fences around the operational portion of the Landfill prior to weather conditions that may include high winds.*
- 4.33** *The litter management plan shall include methods for determining weather conditions, including wind speed, which will trigger a restriction on activities that may magnify the risk of litter spread.*

#### ***Landfill Pest Management***

- 4.34** *A landfill pest management plan shall be prepared by a suitably qualified person, and submitted to WDC Manager of District Plan Implementation for approval prior to physical works commencing onsite. The plan shall become a section of the LMP. The landfill pest management plan shall include, but not be limited to the matters identified in the landfill operation objectives and contents within schedule 2.*
- 4.35** *The Consent Holder shall engage a suitably qualified independent pest control organisation to undertake a vermin survey of the landfill site prior to deposition of landfill waste and then at intervals of not more than twelve months for the period of the landfill operation following landfill waste deposition. The results of such surveys are to be made available to the Planning Manager: Plan Implementation Unit at Waimakariri District Council by 31 August each year. If increased vermin levels are reported, the Consent Holder shall take immediate action to reduce vermin, in accordance with the Landfill Pest Management Plan.*

### **5. WASTE ACCEPTANCE**

#### ***General***

- 5.1** *All landfill waste shall be received to site in an enclosed, sealed containment device that will not allow any material, liquid, dust or odour from the landfill waste being carried onto any public or private land except for within the landfill area.*

#### ***Waste Acceptance Criteria***

- 5.2** *Landfill waste accepted into the landfill shall be in accordance with the Waste Acceptance Criteria listed in Schedule 1 to this consent.*

### **6. AIR QUALITY**

- 6.1** *An air quality management plan shall be prepared by a suitably qualified person, and submitted to WDC Manager of District Plan Implementation for approval prior to physical works commencing onsite. The plan shall become a section of the LMP. The air management plan shall include, but not be limited to the matters identified in the air quality objectives and contents within schedule 2.*

## **7. LANDFILL GAS**

**No Conditions**

## **8. ECOLOGY**

- 8.1** *If mature Beech forest is removed within the landfill site boundary, an area of existing mature Beech Forest shall be set aside within Lot 1 DP 481768 outside the landfill site boundary. The area to be set aside shall be confirmed by an appropriately qualified and experienced ecologist as being of an equivalent or better ecological value as the area to be removed. A covenant shall be registered on the Record of Title for Lot 1 DP 481768 which shall ensure the ongoing preservation of this area in perpetuity. The Waimakariri District Council shall be a party to this covenant whereby the covenant cannot be removed without Waimakariri District Council approval.*
- 8.2** *Prior to vegetation clearance and physical works commencing in those areas within the landfill site which have been identified for vegetation clearance and earthworks (including quarrying), an ecological impact assessment (EclA), indigenous vegetation (and habitat of fauna) restoration plan, indigenous fauna management plan, wetland management plan and pest management plan shall be prepared by a suitably qualified person, and submitted to WDC Manager of District Plan Implementation for approval. These plans shall become a section of the LMP. The plans shall include, but not be limited to the matters identified in the Ecological Enhancement and Restoration objectives and contents within schedule 2.*
- 8.3** *The Ecological Impact Assessment shall identify ecological values on-site and the appropriate measures to avoid or mitigate the effects on these values. The EclA shall include, but not be limited to:*
- Assessment of actual and potential adverse and/or positive effects on ecosystems, including effects on plants or animals and any physical disturbance of habitats in the vicinity*

- *Identification of areas of significant indigenous vegetation and significant habitat for indigenous fauna*
  - *Surveys of indigenous fauna including lizards, birds and bats during suitable survey conditions (September - May)*
  - *Recommendations for the development of indigenous flora and fauna management plans, where deemed appropriate based on surveys*
- 8.4** *Any ecological management plan/s for indigenous flora or fauna shall be prepared by a suitably qualified and experienced ecologist, and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval. The management plan/s shall include, but not be limited to:*
- *The provisions of Department of Conservation Wildlife Act Authorisations where appropriate*
  - *Department of Conservation's Bat Roost Protocols (BRPs)*
  - *Address the effects management hierarchy*
  - *Schedules for implementation of management plans prior to commencement of physical works*
- 8.5** *The EclA shall be used to inform an Indigenous Vegetation (and Habitat of Fauna) Restoration Plan, prepared by a suitably qualified and experienced ecologist, which shall also inform the Landscape Management Plan. The Ecological Impact Assessment, and subsequent Indigenous Vegetation (and Habitat of Fauna) Restoration Plan, Wetland Management Plan and Pest Management Plan shall be submitted to Waimakariri District Council Planning Manager and Canterbury Regional Council for approval.*
- 8.6** *A Wetland Management Plan must be prepared by a suitably qualified person and submitted to Canterbury Regional Council and Waimakariri District Council for approval at least two months prior to landfill physical works commencing. The Wetland Management Plan must include, but not be limited to, the matters identified in the Wetland Management Plan objectives and contents within schedule 2. Any works that may impact on the wetland must be in accordance with the Wetland Management Plan and supervised and confirmed as being in accordance with the plan by a suitably qualified ecologist.*
- 8.7** *Any vegetation clearance or earthworks (including quarrying) in areas subject to ecological management plans shall be in accordance with those management plans, and supervised and confirmed as being in accordance with the plan by a suitably qualified ecologist. The confirmation shall be forwarded to the Planning Manager: Plan Implementation Unit at Waimakariri District Council.*

## **9. LANDSCAPE**

- 9.1** *A landscape concept plan shall be prepared by a suitably qualified landscape architect and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to physical works commencing on site. The plan shall become a section of the LMP. The landscape concept plan shall include, but not be limited to the matters identified in the Landscape objectives and contents within schedule 2 (9B). The landscape concept plan shall be informed by the ecological impact assessment, the draft Landscape Concept Plan Drawing F8 by DCMUrban, and shall not conflict with the any indigenous vegetation (or habitat of indigenous fauna) restoration plan.*
- 9.2** *A detailed landscape management plan shall be prepared by a suitably qualified landscape architect prior to physical works commencing on site, for the approval of the Planning Manager: Plan Implementation Unit at Waimakariri District Council. The plan shall become a section of the LMP. The landscape management plan shall include, but not be limited to the matters identified in the landscape objectives and contents within schedule 2 (9C).*
- 9.3** *All landscaping and associated works shall be undertaken and completed in accordance with the approved detailed landscape management plan.*
- 9.4** *A Landscape Report shall be prepared each year, by a suitably qualified landscape architect, and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council on an annual basis. The report shall be forwarded to Waimakariri District Council by 31 August each year, unless otherwise agreed in writing with Waimakariri District Council.*
- 9.5** *The Landscape Report shall detail planting, maintenance and plant and animal pest control activities undertaken during the previous year and detailed plans for landscaping proposed in the following year. It shall include photos taken from agreed locations to document plant growth (including a person holding a survey staff) and health each year.*
- 9.6** *There shall be no deposition of waste until landscaping identified as required at construction stage has been completed as per the specifications of the landscape management plan.*
- 9.7** *The landscape management plan shall be replaced by an updated landscape management plan no less than twelve months prior to the ten year expiry of the landscape management plan. The replacement landscape management plan shall be designed for the next ten year period*

*and each landscape management plan shall be continually replaced every ten years during the life of the landfill (ie: prior to aftercare commencing). It shall be ensured that there is an active landscape management plan at all times for the life of the landfill activity. Each landscape plan shall be approved by the Planning Manager: Plan Implementation Unit at Waimakariri District Council.*

#### **10. GROUNDWATER**

*No Conditions*

#### **11. SURFACE WATER**

*No Conditions for surface water – please refer erosion and sediment control at condition 13*

#### **12. LEACHATE**

*No Conditions*

#### **13. EROSION AND SEDIMENT CONTROL**

*Storm water management*

- 13.1** *An erosion and sediment control management plan, a site specific erosion and sediment control management plan and an erosion and sediment control maintenance plan shall be prepared by a suitably qualified person and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to physical works commencing on site. The plans shall become a section of the LMP. The plans shall include, but not be limited to the matters identified in the Emergency Response objectives and contents within schedule 2.*
- 13.2** *The Consent Holder shall design and install on-site drains and storm water management areas (SMA) in general accordance with the approved plans for the landfill activity and associated roading and 'Container Transfer / Site Facilities' at the site. The designs shall be submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for engineering approval.*
- 13.3** *If any discharge of storm water runoff from the site or the on-site storm water management system into the onsite tributaries or valleys is proposed, specific design to ensure that the water quality and flow rate of the receiving environment is not altered from its current state will be required. The proposed design solution shall be provided to the Planning*



***Manager: Plan Implementation Unit at Waimakariri District Council for review and approval prior to works commencing on the site.***

- 13.4** *All SMA's shall be maintained by the Consent Holder and shall achieve the minimum attenuation allowance designed within the approved plans, stamped RC215276, at all times.*
- 13.5** *The Consent Holder shall be responsible for installing and maintaining any sediment control devices, protection of the existing land drainage and waterways, and making regular inspections, repairs and changes to the proposed measures as required.*
- 13.6** *All existing overland flow paths shall be retained at their pre-development capacity, unless provision has been made within engineering plans for the flow path to be diverted, subject to formal approval in writing having been provided by Council. Where overland flow paths may be increased from pre-development capacity due to potential hazards such as SMA failure a flood assessment report outlining the increased flood hazard onsite and further downstream of the site shall be provided to Council for review, assessment and approval.*
- 13.7** *Erosion and sediment control facilities shall be maintained by the consent holder for the duration of the consent.*

#### **14. EMERGENCY RESPONSES**

- 14.1** *A site emergency plan and a hazardous substance emergency plan shall be prepared by a suitably qualified person and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to physical works commencing on site. The plans shall become a section of the LMP. The site emergency plan and the hazardous substance emergency plan shall include, but not be limited to the matters identified in the Emergency Response objectives and contents within schedule 2.*

#### **15. CLOSURE**

- 15.1** *A Closure Plan shall be prepared by a suitably qualified person and submitted to the Planning Manager: Plan Implementation Unit at Waimakariri District Council for approval prior to deposition of landfill waste, and shall be updated every five years prior to being sent to CRC and WDC for approval. The plan shall become a section of the LMP. The closure plan shall include, but not be limited to the matters identified in the Closure objectives and contents within schedule 2 and must include provisions for temporary and full closure.*

- 15.2** *If the landfill should temporarily cease operation for a period exceeding twelve months the consent holder shall commence and undertake all necessary measures required, as specified in the closure plan – temporary closure.*
- 15.3** *If the temporary closure of the landfill activity exceeds a period of five years (from the date of commencement of temporary closure) a full closure plan shall be activated. The consent holder shall commence and undertake all necessary measures required, as specified in the closure plan – full closure.*
- 15.4** *A certificate signed by the person responsible for designing the closure of the landfill and associated systems and structures shall be submitted to the Waimakariri District Council within one month of completion of closure construction to certify that all works, including remediation were carried out in accordance with the design plans submitted.*
- 15.5** *The final finished surface of the engineered capping of the landfill shall not, following settlement and capping, exceed the levels shown on Drawing B2 Remediated Surface with Toe Bund in the approved plans stamped RC215276.*

## **16. AFTERCARE**

- 16.1** *An aftercare plan shall be prepared by a suitably qualified person and submitted to the Council for approval, at least one year prior to the landfill ceasing to receive waste. The aftercare plan shall include, but not be limited to the matters identified in the Aftercare objectives and contents within schedule 2.*

## **ADVICE NOTES**

- 1.** *The consent is a resource consent in terms of the Resource Management Act 1991. It is not a consent under any other Act, Regulation or Bylaw.*
- 2.** *The Consent Holder is advised that requirements and conditions listed are a statement of the Council's minimum standards. Where the Consent Holder proposes higher standards or more acceptable alternatives these shall be submitted to the Council in writing for approval.*

- 3. The Erosion & Sediment control Toolbox for Canterbury can be found on the ECan website link <http://esccanterbury.co.nz/>.**
- 4. This consent does not constitute approval under the Building Act or any Regional Plan.**

**Schedule 1 – Waste Acceptance Criteria**

**Schedule 2 – LMP Objectives and Contents**

**Schedule 3 – Peer Review Panel Scope of Responsibilities**