

## Recommended Conditions for Consent Application: CRC175344

**Proposed Activity: Discharge to air of contaminants (odour and dust) from an industrial premise into air**

	Limits
1	<p>(a) The discharge to air shall be only odour and particulate matter from an industrial premise for an organic waste composting operation, located at 97 Diversion Road, Swannanoa, labelled as "Site Location" on Plan CRC175344A, attached to and forming part of this consent.</p> <p>(b) <u>Except where necessary to comply with the following conditions, the organic composting operation shall be managed in accordance with the information and plans submitted with the consent application dated 05 April 2017, as amended by the further information provided on 05 April 2018.</u></p>
2	The volume of compost on-site at any one time shall not exceed 40,000 cubic metres.
3	<p>There shall be no odour, suspended or particulate matter caused by discharges from the composting activity which are noxious, offensive or objectionable beyond the boundary of the property where the composting activity is located, identified as "Part RS 33406 and Lot 2 DP 25643" on Plan CRC175344B, attached to and forming part of this consent.</p> <p><b>Advice Note:</b> Assessment of whether or not odours are noxious, offensive or objectionable shall be carried out in accordance with Schedule 2 to the Canterbury Air Regional Plan October 2017</p>
4	<p>The composting materials shall be only:</p> <ul style="list-style-type: none"> <li>a. Sawdust and bark;</li> <li>b. Dewatered paunch grass;</li> <li>c. Scoured wool fragments;</li> <li>d. Egg shell;</li> <li>e. Compostable packaging with some residual food waste;</li> <li>f. Grease trap waste;</li> <li>g. <u>Solids from meat and milk processing wastewater treatment</u></li> <li>h. Bio solids that meet Grade A or B of the <i>Guidelines for the Safe Application of Biosolids to Land in New Zealand</i> 2003 or any replacement;</li> <li>i. Paper from gib-board offcuts;</li> <li>j. Green waste;</li> <li>k. Leaf Litter.</li> </ul>
5	The proportion of grease trap waste within the composting windrows shall be a maximum of one percent.
	<b>Operation and Monitoring</b>
6	The activity at the site shall be operated in accordance with a Compost Management Plan (CMP). The CMP shall include, but not be limited to:

	<ul style="list-style-type: none"> <li>a. Procedures to be followed to ensure compliance with the conditions of this consent;</li> <li>b. Details of how the consent holder will train relevant staff so that the CMP composting operations are adhered to;</li> <li>c. The measures to be used to minimise odour and dust emissions caused by the composting activity;</li> <li>d. Practices that are in accordance with best practice guidelines for commercial composting in New Zealand including Appendix K of NZS4454:2005 or any variation or replacement;</li> <li>e. A location and site plan, the latter to identify the following; <ul style="list-style-type: none"> <li>i. Areas where the storage of raw materials is to occur;</li> <li>ii. Location of composting rows;</li> <li>iii. Areas where composting will not occur including, but not necessarily limited to, the north-east corner of the site identified on Plan CRC175344C, attached to and forming part of this consent.</li> </ul> </li> <li>f. A list of on-site management and monitoring procedures, including but not limited to: <ul style="list-style-type: none"> <li>i. Minimum oxygen concentrations within composting rows;</li> <li>ii. Maintenance of minimum temperature requirements within composting rows;</li> <li>iii. Minimum turning frequencies of <u>curing</u> composting rows;</li> <li>iv. Managing windrow turning when wind conditions may increase the potential for effects on sensitive receptors;</li> <li>v. Minimum and maximum moisture content within composting windrows;</li> <li>vi. Maintenance of carbon to nitrogen ratios within active stage (1-<u>12-6</u>weeks) composting windrows;</li> <li>vii. Maximum height of composting windrows;</li> <li>viii. Minimum separation distances between composting windrows.</li> </ul> </li> <li>g. A contingency plan in the event of breakdowns or malfunctions; and</li> <li>h. A procedure for recording and addressing odour complaints.</li> </ul>
7	The CMP shall be prepared and submitted for certification to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance, within 20 working days of exercise of this consent; and be displayed onsite at all times.
8	<p>The CMP outlined in condition (6) may be amended at any time. Any amendments shall be:</p> <ul style="list-style-type: none"> <li>a. Only for the purpose of improving the efficacy of the composting process and shall not result in an increase in the discharge of odour or particulate matter from the composting activities;</li> <li>b. Consistent with the conditions of this resource consent; and</li> <li>c. Submitted in writing to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance, at least five days prior to any amendment being implemented.</li> </ul>

9	The contact phone number of the site manager shall be displayed on a sign located at the entrance to the site off Diversion Road, and notified to submitters on the consent and to members of the Community Liaison Group as stated in Condition (23). Any complaint received by the site manager shall be investigated and necessary corrective action taken as soon as practicable after receipt of the complaint.
10	Corrective action referred to in Condition (9) shall include, but not be limited to: <ul style="list-style-type: none"> <li>a. Identifying the materials or activities that may be the source of odours;</li> <li>b. Ceasing any actions that are generating odours;</li> <li>c. Covering exposed odorous material with sawdust, bark fines, cured or mature compost;</li> <li>d. Not recommencing the activity until the wind is in the direction away from sensitive receptors or the material that is the source of the odour has been removed.</li> </ul>
11	The composting activity shall follow best practice guidelines for the operation, as set out in Appendix K of NZS4454:2005 or any variation or replacement.
12	<p><u>Until implementation of the aerated static pile (ASP) process identified in the information provided on 05 April 2018 ,</u> Temperature, oxygen concentration and moisture content of the compost windrows shall be measured and recorded:</p> <ul style="list-style-type: none"> <li>a. In accordance with procedures described in the CMP;</li> <li>b. Immediately before each time the compost windrows are turned;</li> <li>c. At least once in each seven-day period for the first three weeks following the initial windrow formation; and</li> <li>d. At least once each 14-day period until the composting is completed.</li> </ul> <p><u>Subsequent to the implementation of the ASP process, the requirements for monitoring set out in 12 (b)- (d) shall be replaced with the following:</u></p> <ul style="list-style-type: none"> <li>(a) <u>Continuous temperature monitoring for rows undergoing the ASP process;</u></li> <li>(b) <u>Weekly temperature monitoring of "curing" piles for the first month, with monthly temperature monitoring thereafter.</u></li> </ul>
13	The carbon to nitrogen ratio of each compost windrow shall be measured and recorded within 5 days of formation.
14	<ul style="list-style-type: none"> <li>a. <u>Subject to</u> <u>Until implementation of the ASP process in accordance with</u> Condition (14<del>(db)</del>) all <del>new</del> compost windrows <del>that are less than 12 weeks old</del> shall be placed on a bed of sawdust and/or bark fines, with a minimum depth of 500 millimetres at the time of formation;</li> <li>b. <del>Material in composting windrows that are between 12 weeks and 20 weeks old shall be placed on a bed of sawdust and/or bark fines,</del></li> </ul>

	<p>with a minimum depth of 500 millimetres at the time of formation;</p> <p>c. <del>Composted material that is more than 20 weeks old is mature and can be located on the ground surface;</del></p> <p>d. <del>Within six months from the granting of this consent all new composting windrows that are less than 12 weeks old shall be located on a composting pad constructed of compacted aggregate and filter fabric and placed on a bed of sawdust and/or bark fines with a minimum depth of 500 millimetres; and</del> <u>By no later than 31 December 2018, the Consent Holder shall implement the ASP process referred to in the further information dated 05 April 2018;</u></p> <p>e. <u>From the time of implementation of the ASP process in accordance with Condition 14 (db), all compost windrows that have completed the ASP stage of the composting process shall be placed on a bed of sawdust and/or bark fines, within a minimum depth of 500 millimetres at the time of formation.</u></p> <p>f. After each turning of the composting rows the bed of sawdust and/or fines shall be reinstated to a depth of 500 millimetres</p>
15	Any runoff or ponding water onsite shall be managed to avoid standing water around the compost piles.
16	Organic materials listed in Condition (4)(b)-(hg)) delivered to the site shall be either mixed in composting rows or covered with bark fines or sawdust on the day of receipt.
17	Windrows and stockpiles shall be managed to avoid creating conditions that may lead to spontaneous combustion of the compost.
18	The consent holder shall install and maintain in good working order at a suitable location within the area shown on Plan CRC175433A instruments capable of continuously monitoring and recording wind speed, wind direction, rainfall and temperature.
19	<p>Dust discharges from the composting operation shall be controlled with the use of water sprays, including but not limited to:</p> <ol style="list-style-type: none"> <li>On the surface of the any windrows or stockpiles;</li> <li>When any windrows or stockpiles are disturbed;</li> <li>When screening of compost occurs.</li> </ol>
<u>20</u>	<u>The consent holder shall establish and maintain a shelterbelt of one row of pinus radiata trees, or other similar evergreen species, planted at no more than 1.5 metre spacing along the western, northern and eastern boundaries of the site. The shelterbelt shall be kept trimmed to a hedge up to 2m in depth with foliage maintained from ground level to the top and kept to a height of approximately 8 metres.</u>
	<b>Records</b>
21	The monitoring undertaken in accordance with Condition (12) and (13) shall be recorded and the records shall detail the:

	<ul style="list-style-type: none"> <li>a. Location of the compost being measured;</li> <li>b. Temperature of the compost sampled;</li> <li>c. Moisture content of the compost sampled;</li> <li>d. Oxygen concentration of the compost sampled;</li> <li>e. Carbon to nitrogen ratio of the compost sampled;</li> <li>f. Name of the operator undertaking the monitoring; and</li> <li>g. Date and time of the monitoring.</li> </ul> <p>The records shall be retained for at least one year after the composted material is removed from the site. A copy of the recorded entries shall be submitted to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance, within 20 working days of written request by the Canterbury Regional Council.</p>
22	<p>The consent holder shall maintain records of the amount, source and conditions of all materials composted on-site. A copy of the records shall be provided to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance, within 20 working days of written request by the Canterbury Regional Council.</p>
23	<p>The consent holder shall maintain a record of any odour or dust complaints that have been received by the consent holder. The records shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>a. The name and address of complainant, if supplied;</li> <li>b. The date and time that the contaminant was detected;</li> <li>c. The nature and duration of the reported effect;</li> <li>d. The location where the contaminant was detected;</li> <li>e. A general description of the weather conditions, including the wind speed, wind direction, cloud cover when the contaminant was detected;</li> <li>f. The most likely cause of the contaminant; and</li> <li>g. Any corrective action undertaken by the consent holder to avoid or mitigate the contaminant detected by the complainant.</li> </ul> <p>These records shall be made available to the Canterbury Regional Council, Attention: Regional Leader – Monitoring and Compliance, within 20 working days of written request by the Canterbury Regional Council.</p>
	<b>Community Group</b>
24	<p>Within two months of the commencement of this consent, the consent holder shall offer to establish a Community Liaison Group. The consent holder's organisation of the Community Liaison Group shall include:</p> <ul style="list-style-type: none"> <li>a. Being responsible for convening the meetings of the group and offering the opportunity for meeting at least twice annually during the term of the consent;</li> <li>b. Being responsible for the keeping and distribution of the group's minutes to all participants of the group;</li> <li>c. Providing an opportunity for the Community Liaison Group to receive and discuss the results of all monitoring and reports as required by the conditions of this consent; and</li> </ul>

	<p>d. As a minimum invite the following shall be invited to participate in this group:</p> <ul style="list-style-type: none"> <li>i. Two representatives of landowners within two kilometres of the site and who are also submitters to the consent application; and</li> <li>ii. A representative of the Eyre District Environmental Protection Society.</li> <li>iii. A representative of the Canterbury Regional Council in an observer capacity.</li> </ul> <p><b>Advice Note:</b> The objective of the Community Liaison Group is to facilitate information flow between the consent holder and the community and to be an ongoing point of contact between the consent holder and the community.</p> <p>The functions of the group may also include acting as a forum for relaying any community concerns about the operation of the composting facility and reviewing the implementation of measures to resolve and manage any community concerns regarding the effects of the facility.</p>
	<b>Administration</b>
25	<p>The Canterbury Regional Council may annually, on the last working day of May or November, serve notice of its intention to review the conditions of this consent for the purposes of:</p> <ul style="list-style-type: none"> <li>a. Dealing with any adverse effect on the environment which may arise from the exercise of this consent and which is appropriate to deal with at a later stage; or</li> <li>b. Requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment.</li> </ul>
26	<p>If this consent is not exercised before 31 March 2023 then it shall lapse in accordance with Section 125 of the Resource Management Act 1991.</p> <p><b>Advice note:</b> 'Exercised' is defined as implementing any requirements to operate this consent <u>and</u> undertaking the activity as described in these conditions and/or application documents.</p>