

**HotRot Organic Solutions (NZ) Ltd guarantees*
that plant designed, installed and operated
according to our guidelines will not result in
odour problems for your business.**

* The HotRot OdourFree Guarantee is subject to the following:

Conditions:

- HotRot is consulted during all aspects of plant design and HotRot agrees with all aspects of plant design.
- HotRot, or its approved agents, install and commission all equipment supplied by it.
- The plant is operated according to HotRot Specifications for Use and Operating and Maintenance Manuals.
- An odour is defined as 'unacceptable' when assessed using the attached protocol.

Verification:

- At the completion of plant commissioning an onsite olfactometry odour assessment (as detailed in the attached protocol) will be conducted in conjunction with the client to ensure compliance.
- If any 'unacceptable' odours are detected during this assessment HotRot undertakes to modify the plant to comply if all the terms and conditions have been satisfied.

Signed on behalf of HotRot Organic Solutions (NZ) Ltd

Signed on behalf of the client

Dated: _____

Protocol for Onsite Assessment of Odours:

Personnel:

- Monitoring personnel should be chosen from office-based staff who are unlikely to suffer odour fatigue, i.e., the inability to detect relevant odours due to constant exposure to them.
- HotRot reserves the right to select a representative to undertake ranking of odours for the purposes of this odour free guarantee. The odour assessment of the HotRot representative and the Client's representative shall be averaged to allow the ranking of the odour.
- Inspectors should not:
 - Smoke or consume strongly flavoured food or drink for at least half an hour before the assessment is carried out.
 - Consume confectionery or soft drinks immediately before or during an assessment.
 - Should not apply strong scented toiletries, perfumes or deodorants immediately before or during an assessment.
 - Conduct an assessment if they have a cold, sore throat or any other condition that may impair their ability to smell.

Procedure:

- Personnel should walk slowly along the entire boundary and breathe normally. If an odour cannot be detected in this way the personnel should periodically stand still and inhale deeply facing the wind.
- If odour is detected only when standing still then the intensity should be recorded as 2 (faint). If odour is detected while walking, the intensity should be recorded as at least 3 (see below).
- If an odour is detected the personnel should repeat the assessment at least once more during the day to assess extent (see below).
- Whenever an odour is detected the sensitivity of the surrounding environment should be recorded (see below).
- If odours are detected at the boundary, an inspection of the composting plant should be carried out to trace any observed odour from the boundary to the source, or the direction of an offsite odour, so that appropriate corrective action can be taken.
- For each odour assessment a report (using the template provided – see attached) should be completed and signed by both HotRot and the client.

Ranking odours:

Odours are ranked according to intensity and then extent and sensitivity (assuming an odour is detected).

Intensity:

1. No detectable odour
2. Faint odour (only detectable when standing still and facing into the wind)
3. Moderate odour (easily detectable while walking and breathing normally)
4. Strong odour (bearable but offensive)
5. Very strong odour (unbearable)

OdourFreeTM

GUARANTEE

Extent: (Only where intensity > 1 and determined by repeat assessments)

1. Local and non-persistent (only detected during brief periods when wind drops or blows)
2. Non-persistent (as above but detected away from the site boundary)
3. Persistent but localised
4. Persistent and pervasive (odour detected up to 50 m from site boundary)
5. Persistent (odour detected > 50 m from the site boundary)

Sensitivity: (only where intensity > 1)

1. Remote (no housing, commercial/industrial premises or public areas within 500 m)
2. Low sensitivity (no housing etc within 100 m of area affected by odour)
3. Moderate sensitivity (housing etc within 100 m of area affected by odour)
4. High sensitivity (housing etc within area affected by odour)
5. Extra sensitive (complaints arising from within affected area)

Remedial threshold:

The scores given by all assessing parties will be averaged to obtain the final score. An odour with a combined ranking of greater than 6 shall be classified as 'unacceptable' and remedial action will be taken by HotRot.



Odour Assessment Form:

Site name/location: _____

Date: _____

Client representative: _____

HotRot representative: _____

Location on site	Time	Character ¹	Intensity ²	Extent ³	Sensitivity ⁴	Suspected source	Recommended actions

1: Sweet, sickly, rotten, eggy, earthy – be as specific as possible
 3: Rank 1-5 if odour present; see protocol

2: Rank 1-5; see protocol
 4: Rank 1-5 if odour present; see protocol