



<b>Licence number</b>	L8336/2009/3
<b>Licence holder</b>	Mindarie Regional Council
<b>ABN</b>	17 015 003 687
<b>Registered business address</b>	1700 Marmion Avenue, TAMALA PARK WA 6030
<b>DWER file number</b>	DER2015/001723-1
<b>Duration</b>	14/04/2021 to 13/04/2026
<b>Date of issue</b>	19/01/2021
<b>Premises details</b>	Mindarie Resource Recovery Facility Lot 801 on Plan 57533, Pederick Road, NEERABUP, WA 6031 As shown in Schedule 1 of this Licence

<b>Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b>	<b>Assessed production / design capacity</b>
Category 67A: Compost manufacturing and soil blending: Premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost or blended soils.	110 000 tonnes per year

This licence is granted to the licence holder, subject to the attached conditions, on 22 January 2022, by:

**Stephen Checker**  
**MANAGER WASTE INDUSTRIES**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

## Licence history

Instrument	Issued	Summary of changes
L8336/2009/2	22/11/2016	Amendment Notice 1 – adjustment of condition numbers
L8336/2009/2	03/08/2017	Amendment Notice 2 – review and amendment of odour controls
L8336/2009/2	15/03/2019	Amendment Notice 3 – to extend the expiry date for one year
L8336/2009/2	26/03/2020	Licence Amendment – Amalgamation of Amendment Notices and extension to the expiry date by one year
L8336/2009/2	15/09/2020	Licence Amendment to alter conditions 18, 20 and 21
L8336/2009/3	19/01/2021	Licence renewal
L8336/2009/3	22/01/2022	Licence transfer to Mindarie Regional Council

## Interpretation

In this licence:

- (a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
  - (i) if dated, refers to that particular version; and
  - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

**NOTE:** This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

## Licence conditions

The licence holder must ensure that the following conditions are complied with:

1. Nothing in this licence shall be taken to authorise any emission that is not mentioned in this licence, where the emission amounts to:
  - (a) pollution;
  - (b) an unreasonable emission;
  - (c) discharge of waste under circumstances likely to cause pollution; or
  - (d) being contrary to any written law.
2. The Licence Holder must ensure that the odour management infrastructure and equipment specified in Table 1 is maintained in good working order and operated and maintained in accordance with the requirements specified in Table 1.

**Table 1: Odour management infrastructure**

Infrastructure and equipment	Infrastructure requirement(s)
Maturation hall	<ul style="list-style-type: none"> <li>Maintained under negative pressure (0 Pascals)</li> <li>Fitted with automatic closing doors</li> </ul>
Humidification system	<ul style="list-style-type: none"> <li>Fitted with 3 spray stations</li> <li>Each spray station fitted with 15 spray nozzles</li> </ul>
Biofilter inlet ducts	<ul style="list-style-type: none"> <li>Three inlet ducts with a total capacity of 300,000 m<sup>3</sup>/air/hour</li> </ul>
Ducting system	<ul style="list-style-type: none"> <li>Maintained free of defects</li> </ul>
Biofilter	<ul style="list-style-type: none"> <li>Comprised of four cells</li> <li>Fitted with 8 analog differential pressure gauges (Magnehelic)</li> <li>Biofilter medium – two metres deep, free draining, inoculated with micro-organisms</li> <li>Reticulation system</li> </ul>
Alarms/timers	<ul style="list-style-type: none"> <li>To provide notification to ensure compliance with conditions 21 and 22</li> </ul>

## Complaints register

3. The License Holder shall keep a written record of all complaints received concerning the impact of emissions from the premises for a minimum of 3 years, which shall include but not be limited to:
  - (a) date and time both of the complaint and of any environmental impact reported by the complainant;
  - (b) a unique registration number;
  - (c) location of the alleged impact; (does not identify individuals)
  - (d) general description of the nature of any environmental impact reported by the complainant to which the complaint relates;
  - (e) whether the complainant reported any adverse health effects;
  - (f) wind direction, wind speed and air temperature at the time of the complaint;
  - (g) the likely source(s) of the cause of the complaint;
  - (h) action taken in response to the complaint including results of any investigation(s) and action(s) taken to prevent a recurrence of the events giving rise to the complaint; and
  - (i) provide feedback to the complainant within 3 days of receipt of the complaint.

4. The License Holder shall record production and throughput data and any other process parameters relevant to any non-continuous or CEMS monitoring undertaken.

### Waste acceptance

5. The License Holder shall ensure that only putrescible waste is accepted for composting at the Premises.
6. The License Holder shall not accept more than 110,000 tonnes per annum of putrescible waste from Mindarie Regional Council.
7. The License Holder shall maintain a record of the monthly total amounts of putrescible waste accepted at the premises for composting.

### Waste removal

8. The License Holder shall ensure that all waste material accepted at the Premises is fed into the digesters within 72 hours of receipt with the exception of the bottom 1 metre composted layer in the waste acceptance pit.
9. The License Holder shall maintain a record of the monthly total amounts of composted material removed offsite.

### Emissions to air

10. The License Holder shall suppress dust to ensure that no visible dust is discharged beyond the boundary of the Premises.
11. In the event operations cease due to failure or malfunction of plant equipment, the License Holder shall inform the CEO within 24 hours of the cause, duration of closure, time of start-up, and remedies taken to rectify the problem.
12. The License Holder shall ensure all odorous gases collected from the operations pass through the biofilter and associated pollution control equipment prior to being discharged into the environment.
13. The License Holder shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person not on the premises.
14. The License Holder shall ensure that all non-continuous sampling and analysis undertaken pursuant to condition 15 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.
15. The License Holder shall monitor biofilter performance in accordance with the minimum measurement requirements of Table 2 for the parameters detailed in Column 1 of Table 2 for the measurements at the locations specified in Column 2 of Table 2 at the frequency specified in Column 3 of Table 2 and using the methods specified in Column 4 of Table 2.

**Table 2: Biofilter performance measurement requirements**

Column 1	Column 2	Column 3	Column 4
Parameters	Measurement and sampling locations	Monitoring frequency <sup>2, 3</sup>	Sampling and measurement method
Velocity (m/s)	In the duct, prior to each of the three fans	Biannually (May and November)	USEPA Method 2
Odour concentration (ou) <sup>1</sup>	At the inlet of each of the four biofilter cells		AS/NZS 4323.3:2001
Temperature (°C)			n/a
Pressure (kPa)			n/a
Relative humidity (%)			n/a
Odour concentration of a composite sample from the 12 locations (ou) <sup>1</sup>	12 evenly spaced locations over the surface area of each cell		AS/NZS 4323.3:2001
Temperature for each location (°C)			n/a
Relative humidity for each location (%)			n/a
Media surface velocity for each location (m/s)			VDI standard 3880.2011

Note 1: All units are referenced to STP wet.

Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.

Note 3: Whilst undertaking the monitoring ensure that the Biofilter inlet fan is operating at a capacity of 95% of design capacity.

Note 4: all the biofilter performance measurements required in Table 2 have to be undertaken at the same period of time.

## Fire management

16. The License Holder shall take all practical measures to prevent fires from occurring on the Premises.
17. The License Holder shall ensure that a Fire Management Plan for the premises is developed, implemented and updated as required.

## Monitoring

18. The License Holder shall monitor biofilter performance continuously using either the SCADA system or manual readings and recordings in accordance with the minimum measurement requirements of Table 3 at the locations specified in Column 1 of Table 3 for the parameters specified in Column 2 of Table 3 and record the results in the unit specified in Column 3 of Table 3.

**Table 3: Biofilter performance management requirements**

Column 1	Column 2	Column 3	Column 4
Location	Parameter and unit	Monitoring frequency	Recording frequency
Fans	Fan rate (%)	Continuous	Continuous with SCADA system
Outlet of the three fans	Air temperature (°C)		

	Air relative humidity (%)		
At the mixing chamber of the biofilter and at the rear of each cell	Pressure (Pa)		Monthly

- 19.** The License Holder shall make available all monitoring data collected under conditions 15 and 18 of this licence to an Authorised Officer on request.
- 20.** The License Holder shall use all practical measures to analyse the odour samples as soon as practicable after they have been collected to be as representative as possible and to limit odour degradation in the samples.
- 21.** The License Holder shall operate and manage the humidification system and the biofilter cells 1, 2, 3 and 4 to ensure that the limits for the parameters specified in column 2 of Table 4 at the locations specified in column 1 of Table 4, comply with the limits respectively in column 3 of Table 4.

**Table 4: Odour management parameter limits and targets**

Column 1	Column 2	Column 3
Location	Parameters	Limits
Outlet of the three fans	Continuous relative humidity, measured as an arithmetic average of the three fans	75%
	Continuous relative humidity, measured as an arithmetic average of the three fans	85% for periods exceeding three hours
	Continuous temperature	< 45°C

- 22.** The License Holder shall ensure that the parameters listed in Table 5 are notified to the CEO in accordance with the notification requirements of the table.

**Table 5: Notification requirements**

Condition	Parameter	Notification requirement	Form
Condition 21 (Table 4)	Breach of any limit specified in the licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

- 23.** The Licence Holder shall submit to the CEO the Information in Table 6 in accordance with the Requirements and Timescale outlined in Table 6.

**Table 6: Specified actions**

	Information	Requirement(s)	Timescale
1	Site specific Biofilter Management Plan	A Biofilter Management Plan including biofilter design, operation, monitoring (key performance indicators detailing degradation, upset conditions and potential failure triggers), refurbishment plan and contingencies.	3 months from the date of this amendment.

## Reporting conditions

### ANNUAL AUDIT COMPLIANCE REPORT

- 24.** The License Holder shall by 1 February in each year, provide to the CEO an Annual Audit Compliance Report, indicating the extent to which the licensee has complied with the conditions of this licence during the period beginning 1 January the previous year and ending on 31 December.

### ANNUAL ENVIRONMENTAL REPORT

- 25.** The License Holder shall by 1 February in each year submit to the CEO an Annual Environmental Report which shall include but not be limited to:
- (a) any relevant process, production or operational data recorded under condition 4;
  - (b) a comparison of the monitoring results with that of previous years including an assessment of the data against any limits or targets set in this licence or other environmental guidelines or policies and data from previous years' monitoring;
  - (c) identifying any data exceeding any limits, targets, guidelines or policies and provide information on why the exceedance occurred (if known) and action taken by the licensee to prevent recurrence of such exceedances;
  - (d) an assessment of the information contained within the report with respect to the environmental impacts of any discharges into the environment;
  - (e) details of any monitoring methods used to collect and analyse data required by any condition of this licence and information demonstrating that they comply with the methods specified in this licence;
  - (f) the monthly total amounts of putrescible waste accepted onto the premises for composting for this reporting period as per the records of condition 7;
  - (g) the total volume of composted material removed offsite for the previous annual period as per the records of condition 9; and
  - (h) a monthly summary of the information contained in the complaint register required by condition 3.

## Definitions

In this licence, the terms in Table 1 have the meanings defined.

**Table 1: Definitions**

Term	Definition
AS/NZS 4323.3.2001	means the Australian Standard AS/NZS 4323.3.2001 <i>Odour concentration monitoring</i> ;
CEMS	means continuous emissions monitoring system
CEO	means Chief Executive Officer of the Department. “submit to / notify the CEO” (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
License Holder	means Suez Recycling & Recovery Pty Ltd
ou	means odour units as defined in Australia Standard AS/NZS 4323.3 <i>Stationary Source Emissions – Determination of odour concentration by dynamic olfactometry</i>
Pollution control equipment	means ducting, fans and associated collecting devices used to direct air from the operations to the biofilter
Premises	means Mindarie Resource Recovery Facility (MRRF), Lot 801 on Plan 57533, 109 Pederick Road, Neerabup as depicted in Schedule 1
Putrescible Waste	means the component of the waste stream likely to become putrid – including wastes that contain organic materials such as food wastes or wastes of animal or vegetable origin, which readily bio-degrade within the environment of a landfill
SCADA	means standard temperature and pressure (0°Celsius and 101.325 kilopascals respectively)
USEPA method 2	means United States (of America) Environmental Protection Agency method 2
VDI standard 3880.2011	means odour methodology as reported in German VDI standard 3880.2011

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## END OF CONDITIONS



## Schedule 1: Maps

### Premises map

The boundary of the prescribed premises is shown in the map below (



Figure 1).



**Figure 1: Boundary of the prescribed premises**



## Schedule 2: Reporting & notification forms

### N1 form

The licence holder is to submit this form in accordance with the requirements of the licence.

Licence:

Licence holder:

Form: N1

Date of breach:

#### Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

#### Part A

Licence number	
Name of operator	
Location of premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

## Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of licence holder	
Date	