



Government of Western Australia  
Department of Environment Regulation

Your ref:  
Our ref: 2010/009948  
Enquiries: Joanna Waugh  
Phone: 9333 7476  
Fax: 9333 7550  
Email: Joanna.Waugh@der.wa.gov.au

Mr Peter Segura  
Southern Metropolitan Regional Council  
PO Box 1501  
Booragoon WA 6954

Dear Mr Segura,

**ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE**

**Licence:** L7799/2001/8

**Premises:** Regional Resource Recovery Centre

Further to my letter dated 19 March 2015, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on 9333 7476 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Rebecca Kelly  
Officer delegated under section 20  
of the *Environmental Protection Act 1986*

26 March 2015

enc:  
copy to: Local Government Authority: City of Canning



## AMENDED LICENCE FOR PRESCRIBED PREMISES *Environmental Protection Act 1986*

LICENCE NUMBER: L7799/2001/8

FILE NUMBER 2010/009948

### LICENSEE AND OCCUPIER OF PREMISES

Southern Metropolitan Regional Council  
9 Aldous Place  
BOORAGOON WA 6154

### NAME AND LOCATION OF PREMISES

Regional Resource Recovery Centre  
Part Lot 77 and part Lot 78 on Plan 2903, 350 Bannister Road  
CANNING VALE WA 6155 (as depicted in Attachment 2)  
Being the area bound by Latitude/Longitude points:  
115.8910, -32.0739;  
115.8931, -32.0758;  
115.8874, -32.0777; and  
115.8869, -32.0772

### PRESCRIBED PREMISES CATEGORY

Schedule 1 of the *Environmental Protection Regulations 1987*

CATEGORY	DESCRIPTION	CAPACITY
67A	Composting manufacturing and soil blending	No more than 109 200 tonnes per year
61A	Solid waste depot	No more than 52 000 tonnes per year

### CONDITIONS OF LICENCE

Subject to the conditions of licence set out in the attached pages.

Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

ISSUE DATE: Thursday, 27 March 2014  
COMMENCEMENT DATE: Monday, 31 March 2014  
EXPIRY DATE: Thursday, 30 March 2017  
AMENDMENT DATE: Friday, 27 March 2015

# CONDITIONS OF LICENCE

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### DEFINITIONS

In these conditions of licence, unless inconsistent with the text or subject matter:

**"AS/NZS 4323.3:2001"** means Australian/New Zealand Standard Stationary source emissions Part 3: Determination of odour concentration by dynamic olfactometry;

**"Authorised Officer or Inspector"** means a person authorised under section 87 or 88 of the *Environmental Protection Act 1986*;

**'CEO'** means Chief Executive Officer of the Department of Environment Regulation;

**'CEO'** for the purpose of correspondence means;

Manager Licensing (Waste Industries)  
Department of Environment Regulation  
Locked Bag 33  
CLOISTERS SQUARE WA 6850  
Telephone: (08) 9333 7510  
Facsimile: (08) 9333 7550  
Email: [grswanbooragoon@der.wa.gov.au](mailto:grswanbooragoon@der.wa.gov.au)

**"Controlled Waste Contractor"** means contractors licensed under the *Environmental Protection (Controlled Waste) Regulations 2004*;

**"Environmentally Hazardous Materials"** means any substance having toxic, corrosive, flammable, explosive, infectious or otherwise dangerous characteristics which poses a risk to or a state of danger to human beings or the environment;

**"Environmental Management System"** means a program that identifies, manages and reduces impacts on the environment and generates reports on environmental performance progress. It provides a systematic and methodical approach to planning, implementing and reviewing an organisation's response to those impacts;

**"Fire Management Plan"** means a detailed documented program of actions that reflect the requirements under Section 7.2.5 of the Western Australian Urban Fire Emergency Management Plan - Westplan Urban Fire, Fire Rescue Service of Western Australia;

**"Greenwaste"** means waste that originates from trees or plants and includes grass and garden clippings, leave tree pruning and branches;

**"Landfill Waste Classification and Waste Definitions 1996 (as amended)"** means the document issued by the Chief Executive Officer of the Department of Environment and Conservation;

**"Pollution Control Equipment"** means any equipment used to transport and treat odorous gases from the Process Operations Area prior to discharge into the environment;

**"Premises"** for the purposes of this licence means Lot 78 on Plan 2903 and Lot 77 on Plan 2903, 350 Bannister Road, Canning Vale as depicted in Attachment 2;

**"Procedure OM001.1 Relative Humidity Monitoring Procedure"** means the procedure submitted to DER on 20 September 2013;

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**“Process Operations Area”** means the Tipping Shed, the Aeration Building, the Digesters and the Product Storage Shed as depicted in Attachment 3;

**“Putrescible Waste”** means a waste stream likely to become putrid as defined in the document titled ‘Landfill Waste Classification and Waste Definitions 1996 (as amended)’ including grease trap waste;

**“Quarterly”** means the 4 inclusive periods from 1 February to 30 April, 1 May to 31 July, 1 August to 31 October and 1 November to 31 January.

### GENERAL CONDITIONS

- 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 Licensee shall not accept more than 109 200 tonnes of putrescible waste over a 12 month period, where the 12 month period commences on 1 April each year.
- 3 For the reporting period the licensee shall provide to the CEO by **22 November** each year an Annual Environmental Report (AER) containing data collected over the previous year, starting from **27 October** to **26 October** the following year.
- 4 The AER referred to in condition 3 shall contain but not be limited to:
  - (a) monitoring data or other collected data required by any condition of this licence;
  - (b) an explanation of the monitoring results with respect to the environmental impacts of any discharges into the environment;
  - (c) a comparison of the monitoring results with monitoring results 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;
  - (d) 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;
  - (e) the number and type of complaints received including the date of the complaint, the nature of complaint (where appropriate cross referenced with prevailing wind directions) and action(s) taken;
  - (f) any changes to surface drainage channels;
  - (g) any on-site or off-site pollution impacts arising from activities within the Premises;
  - (h) measures taken to control pests and vermin;
  - (i) number and severity of any fires within the Premises;
  - (j) measures taken to suppress dust;
  - (k) measures taken to control windblown waste;
  - (l) the total amount of compost removed from the premises over the year;
  - (m) the throughput of waste per source and per type over the year;
  - (n) measures taken to further control odour emissions from the Premises;
  - (o) any changes to the Premises boundaries, internal buffer zones, or location of groundwater monitoring bores;

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- (p) the number and the details of non-conformances identified with the Premises' Environmental Management System;
  - (q) audits and audit reports undertaken to assess compliance with the Premises' Environmental Management System;
  - (r) any issues raised by the Department of Environment Regulation (e.g. arising from inspections) during the reporting period should also be summarised together with details on how these have been addressed or rectified or, if the required work has yet to be completed, how and when they will be rectified or completed;
  - (s) any odour monitoring assessments undertaken to determine the performance and efficiency of the Pollution Control Devices used to control and mitigate odour emissions from the operations; and
  - (t) 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.
- 5 The licensee shall ensure that only Putrescible Waste is accepted for composting at the Premises.
- 6 The licensee shall ensure the following procedures are in place for managing waste other than waste listed for acceptance in licence condition 5:
- (a) where the licensee is notified or is aware of the acceptance of waste not permitted by this licence, the waste shall be inspected and identified for the potential level of hazard;
  - (b) where such loads are identified, record the nature of the load, the delivery vehicle's registration number, driver's name and volume delivered; and
  - (c) the information recorded or maintained in accordance with parts (a) and (b) of this condition shall be made available for viewing or copying by an Authorised Officer or Inspector during any inspection of the Premises.
- 7 The licensee shall store all permitted Putrescible Waste in the Tipping Shed at all times.
- 8 The licensee shall store all non-solid Putrescible Wastes in the designated biosolids storage tank.
- 9 The licensee shall ensure that all Putrescible Waste material accepted at the Premises is fed into the Digesters as depicted in Attachment 3 within 72 hours of receipt.
- 10 The licensee shall maintain a fence that is a minimum height of 1.8 metres around the whole perimeter of the Premises boundary as depicted in Attachment 2 to prevent public access to the Premises and to effectively control wind-blown waste.
- 11 The licensee shall ensure that a daily inspection of the perimeter fence (and gates) referred to in condition 10 is undertaken and logged and that any damage to the fence (and gates) is repaired within one working day of its discovery.
- 12 The licensee shall ensure that any entrance or exit at the Premises is securely locked when the Premises is unattended.
- 13 The licensee shall cover or enclose all waste material prior to it leaving the Premises.

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- 14 The licensee shall ensure that all wind-blown waste emanating from the Premises including that waste found on the perimeter boundary fence as depicted in Attachment 2 is collected and removed from the Premises to a suitable facility on a weekly basis.

### EMISSION TO AIR

#### AIR EMISSIONS

- 15 The licensee shall suppress dust to ensure that no visible dust is discharged beyond the boundary of the Premises.

#### ODOUR IMPROVEMENT

- 16 The licensee shall maintain a continuous monitoring system with an automated alarm system communicating to a central control room, for the purposes of continuously measuring temperature, relative humidity and pressure at the following locations:

- (i) in all humidifier and wet scrubber inlet gases; and
- (ii) in Biofilter 1, 2, 3 and 4 inlet gases.

#### BIOFILTER LIMITS AND TARGETS

- 17(a) The licensee shall operate and manage Biofilters 1, 2, 3 and 4 such that odour concentrations, when measured on the surface of each biofilter cell in accordance with condition 39(a), do not exceed 500 odour units.
- 17(b) The licensee shall operate and manage Biofilters 1, 2, 3 and 4 to ensure that the limits for the parameters specified in Column 2 of Table 1, at the locations specified in Column 1 of Table 1, comply with the limits listed in Column 3 and Column 4 of Table 1.

Table 1: Temporary and wet scrubbing system performance limits and targets

Column 1	Column 2	Column 3	Column 4
Location	Parameter	Target	Limit
Inlet of each cell of Biofilters 1, 2, 3 and 4	Relative Humidity (% moisture)	90 %	85 %
	Temperature (°C)	No more than 40 °C	No more than 45 °C

- 17(c) The licensee shall take the following management action when the continuous emissions monitoring system shows an exceedance of the limits for relative humidity or temperature in Table 1 at the inlet of any cell of any biofilter:
- (i) immediately take action to improve the efficiency of the humidifier as per procedure *OM001.1 Relative Humidity Monitoring Procedure*;
  - (ii) when the exceedance has lasted in excess of 3 hours notify the CEO as soon as practicable, but no longer than 24 hours after the 3 hour exceedance.
  - (ii) when the exceedance has lasted in excess of 24 hours or for a total of 33 hours over any consecutive 7 day period, notify the CEO and investigate the reason for the non-compliance and submit a report of the investigation to the CEO within 14 days
  - (iii) as soon as practicable implement the measures necessary to rectify the performance of the pollution control equipment identified by the investigation required by condition 17(c)(ii).

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- BIOFILTER MANAGEMENT**
- 18 The licensee shall implement the Biofilter Management Plan dated 19 January 2015.
- ODOUR MANAGEMENT REDUCTION**
- 19(a) The licensee shall implement the Field Odour Assessment Plan date 30 May 2012.
- 19(b) The licensee shall publish on a Southern Metropolitan Regional Council website accessible to the public, by 5 p.m. of the first Wednesday of each month, the outcomes of the ambient odour assessments required by condition 19(a) conducted during the previous month.
- 19(c) The licensee shall submit a report by 15 March of each year detailing the results of all the ambient odour assessments and an assessment of the results against the criteria as detailed the Field Odour Assessment Plan date 30 May 2012
- ODOUR CONTROL**
- 20 The licensee shall ensure all odorous gases are collected from the Process Operations Area and passed through and treated by the Biofilters and associated Pollution Control Equipment prior to being discharged into the environment.
- 21 The licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.
- 22 The licensee shall ensure that in the event of a failure or malfunction of any Pollution Control Equipment, the licensee shall inform the CEO within 24 hours of the cause and duration of the malfunction, remedies taken to rectify the problem and time of start up.
- 23 The licensee shall operate and maintain a system to detect failures in the Pollution Control Equipment in real time.
- 24 The licensee shall take all reasonable and practical actions to cease any emissions of unreasonable odours when a failure or malfunction of the Pollution Control Equipment is detected.
- 25 The licensee shall ensure that in the event that the failure or malfunction of any Pollution Control Equipment is not rectified within 24 hours of detection and unreasonable odours are likely to be emitted, no further Putrescible Waste is to be accepted at the Premises until such time as the failure or malfunction has been rectified.

### **FIRE MANAGEMENT**

- 26 The licensee shall take all practical measures to prevent fires from occurring on the Premises.
- 27 The licensee shall ensure that a Fire Management Plan for the premises is developed, implemented and updated as required.



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### **DISCHARGE TO WATER**

#### **DRAINAGE**

- 28 The licensee shall ensure that all stormwater drains on the Premises operate effectively to ensure that all stormwater is discharged from the Premises unimpeded.
- 29 The licensee shall direct all stormwater into:  
(a) a sedimentation pond prior to its release from the Premises; or  
(b) into an infiltration basin on the Premises.
- 30 The licensee shall ensure that all liquid emanating from the waste receipt and sorting or transfer areas and vehicle wash down areas at the Premises is captured in impermeable blind sumps and directed into leachate storage tanks.
- 31 The licensee shall ensure that all liquid in the leachate storage tanks referred to in condition 30 that is not reused in the compost process is disposed of by:  
(a) obtaining an Industrial Discharge Licence from Water Corporation prior to discharge into the sewerage system; or  
(b) removed from the Premises via tanker by a licensed Controlled Waste Contractor to a treatment plant prior to discharge into the environment.
- 32 The licensee shall ensure that all ponds and basins on the premises are maintained in a manner that does not cause unreasonable odours to be emitted beyond the premises boundary

### **WASTE STORAGE**

#### **LIQUID CHEMICAL STORAGE**

- 33 The licensee shall store all chemicals and environmentally hazardous materials including, but not limited to, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 litres) within low permeability ( $10^{-9}$  metres per second or less) bunded hardstand areas designed to contain not less than 110% of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of all substances stored in the bunded hardstand areas.
- 34 The licensee shall immediately clean up, remove and dispose of any liquid resulting from spills or leaks of chemicals or environmentally hazardous materials including fuel, oil or other hydrocarbons, whether inside or outside the low permeability bunded hardstand areas.
- 35 The licensee shall keep a written or electronic record of all incidents involving discharges of chemicals or environmentally hazardous materials within and from the Premises and provide a summary of each of these incidents to the CEO with the AER required by condition 3.

#### **GREENWASTE STORAGE**

- 36 The licensee shall manage the greenwaste stored in Area A in the following manner:  
(a) storage of no more than 1000 tonnes of greenwaste in Area A at any one time;  
(b) removal of greenwaste from the premises within 10 days of receipt;  
(c) storage of all mulched greenwaste within the shredder building as detailed in Attachment 2;  
(d) processing the green waste material following a First In First Out process;



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- (e) retaining a record of total daily amount of green waste accepted and stored in Area A (as detailed in Attachment 2) and the total amount of mulched green waste sent offsite;
  - (f) a comparison of the amount of greenwaste recorded in part (e) of this condition to the maximum amount of greenwaste permitted to be stored onsite given in part (a) of this condition; and
  - (g) make available on request by an Authorised Officer or Inspector all data required by this condition.
  - (h) Parts (a) and (b) of this condition do not apply to tree trunks and branches with a minimum diameter of 300 millimetres on which leaves or smaller branches are not attached.
- 37 The licensee shall implement the most current and approved version of the following Southern Metropolitan Regional Council Operational Procedures for the purposes of managing greenwaste accepted, processed and stored in Area A:
- (a) Standard Operational Procedure 001 - Greenwaste: Odour Monitoring and Control;
  - (b) Standard Operational Procedure 007 - Greenwaste: Greenwaste Stock Management;
  - (c) Procedure EOPG-1, Unloading, Loading and Storage of Greenwaste;
  - (d) Procedure EOPG-5, Control and Monitoring of Odour from Greenwaste Mulching Operation; and
  - (e) Procedure EOPG-5, Processing of Greenwaste.

### MONITORING CONDITIONS

#### BIOFILTER PERFORMANCE MONITORING

- 38(a) The licensee shall monitor humidifier and wet scrubber performance at the locations specified in Column 1 of Table 2 for the parameters detailed in Column 2 Table 2 at the frequency given in Column 3 of Table 2.

Table 2 – Humidifier and wet scrubber performance

Column 1	Column 2	Column 3
Location	Parameter	Frequency
1. Inlet gases for Biofilter 1, 2, 3 and 4; 2. Pre wet scrubber system on Biofilters 3 and 4; and 3. Pre-humidification system on Biofilters 1 and 2	Temperature (degrees Celcius)	Continuously
	Relative humidity (percent moisture)	
	Pressure (kilopascals)	
	Fan velocity rate (%)	

- 38(b) The licensee shall ensure that the continuous monitors utilised to monitor the parameters as required by condition 38(a), are maintained and calibrated in accordance with the manufacturer's specifications.
- 38(c) The licensee shall undertake the following actions in relation to the operation of the continuous monitors, referred to in condition 38(b):
- (i) monitor and record the availability on a monthly basis; and

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- (ii) ensure that they are operated to achieve at least 90 per cent availability each calendar year.

- 39(a) The licensee shall monitor biofilter performance in accordance with the Biofilter Management Plan in condition 18 at the locations specified in Column 2 of Table 3 for the parameters detailed in Column 1 of Table 3 at the frequency given in Column 3 of Table 3 using the methods specified in Column 4 of Table 3.

Table 3 – Biofilter performance

Column 1	Column 2	Column 3	Column 4
Parameters	Measurement and sampling locations	Monitoring frequency	Sampling and measurement method
Media surface velocity in metres per hour per unit of surface area and per section used for the wall measurement.	12 evenly spaced locations over the surface area of each cell	Quarterly for the period May to October (with a minimum of 45 days between 2 consecutive measurements).  Monthly for the period November to April (with a minimum of 15 days between 2 consecutive measurements)	In accordance with condition 18
Odour concentration (odour units)	Composite sample from 12 evenly spaced locations over the surface area of each cell including along the biofilter walls		In accordance with condition 18 and following AS/NZS 4323.3:2001
	One sample at the inlet for each biofilter cell		
Temperature °C	Measurement taken of the air above the biofilter at 12 evenly spaced locations over the surface area of each cell		N/A

- 39(b) Whilst undertaking the monitoring required by condition 39(a), the licensee shall:
- (i) monitor and record the parameters required by condition 38(a), Column 2 of Table 2; and
  - (ii) ensure that the biofilter inlet fan is operating at 95% of design capacity.

- 40 The licensee shall make available to an Authorised Officer or Inspector on request all data collected under conditions 38 and 39 of this licence.

### REPORTING CONDITIONS

- ANNUAL AUDIT COMPLIANCE REPORT
- 41 The licensee shall by 28 November each year, provide to the CEO an Annual Audit Compliance Report in the form in Attachment 1 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence

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issued under Part V of the Act for the Premises, during the period beginning 27 October in the previous year and ending on 26 October in that year.

### **COMPLAINTS REGISTER**

- 42 The licensee 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) time taken to respond to the complaint.
- 43 Following receipt of a complaint concerning the impact of emissions from the premises:
- (a) within 72 hours of receipt of the complaint the licensee shall respond to the complainant; and
  - (b) within 10 days of receipt of the complaint the licensee shall provide feedback to the complainant, including but not limited to, investigation outcomes and action(s) taken (if any are appropriate) in relation to the complaint, unless such feedback is not requested by the complainant as a result of the response under part (a) of this condition.
- 44 The licensee shall publish on a Southern Metropolitan Regional Council website accessible to the public, by 5 p.m. of the first Wednesday of each month, a weekly summary of the information contained in the complaints register required by condition 42 for the preceding month ending on the first Tuesday of each month excluding the names and addresses of complainants.

### **QUARTERLY COMPLIANCE REPORT**

- 45(a) The licensee shall submit to the CEO a Quarterly Compliance Report that will detail for the previous quarter:
- (a) the total daily amount of accepted green waste material, the daily amount of mulched material removed offsite and show the trend of the daily total amount of mulch and green waste on site;
  - (b) a summary of the information contained in the complaints register detailed in condition 42;
  - (c) monthly throughput of putrescible waste accepted for composting for the previous quarter;
  - (d) the total amount of composting material stored in the aeration building at the end of each month as detailed in condition 47;
  - (e) the total amount of composted material removed off site each month;
  - (f) the monitoring data required by conditions 38 and 39 of this licence for the quarter;

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- (g) a comparison of the monitoring data required by conditions 38 and 39 of this licence against the limits and targets in this licence, the previous quarters data and details on the operations during the sampling event;
- (h) the exceedance investigation reports required to be submitted in condition 17(c), and;
- (i) the outcomes of the ambient odour assessments required by condition 19 conducted during the quarter.

- 45(b) The licensee shall submit the quarterly compliance reports required by condition 45(a) within 28 days after the completion of each quarter.

### **THROUGHPUT REPORTING**

- 46 The licensee shall maintain a record of the daily total amounts of putrescible waste accepted onto the premises for composting.
- 47 The licensee shall record the total amount of composting material in tonnes that is being stored within the aeration building at the end of each month

**CONDITIONS OF LICENCE**  
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**ATTACHMENT 1**

**SECTION A**  
**LICENCE DETAILS**

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

**STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS**

1. Were all conditions of licence complied with within the reporting period? (please tick the appropriate box)

Yes ☐ Please proceed to Section C

No ☐ Please proceed to Section B

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: \_\_\_\_\_



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### SECTION B

#### DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with?	
b) Date(s) when the non-compliance occurred, if applicable?	
c) Was this non-compliance reported to DER?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally    Date _____	<input type="checkbox"/> No
<input type="checkbox"/> Reported to DER in writing    Date _____	
d) Has DER taken, or finalised any action in relation to the non-compliance?	
e) Summary of particulars of non-compliance, and what was the environmental impact?	
f) If relevant, the precise location where the non-compliance occurred (attach map or diagram)	
g) Cause of non-compliance	
h) Action taken or that will be taken to mitigate any adverse effects of the non-compliance	
i) Action taken or that will be taken to prevent recurrence of the non-compliance	

Each page must be initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: \_\_\_\_\_

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### SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this Annual Audit Compliance Report is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your Premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
an individual	<input type="checkbox"/>	by the individual licence holder, or
	<input type="checkbox"/>	by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the Licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/>	by the principal executive officer of the Licensee; or
	<input type="checkbox"/>	by a person with authority to sign on the Licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/>	by affixing the common seal of the Licensee in accordance with the Corporations Act 2001; or
	<input type="checkbox"/>	by two directors of the Licensee; or
	<input type="checkbox"/>	by a director and a company secretary of the Licensee, or
	<input type="checkbox"/>	if the Licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or
	<input type="checkbox"/>	by the principal executive officer of the Licensee; or
	<input type="checkbox"/>	by a person with authority to sign on the Licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/>	by the principal executive officer of the Licensee; or
	<input type="checkbox"/>	by a person with authority to sign on the Licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/>	by the chief executive officer of the Licensee; or
	<input type="checkbox"/>	by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: \_\_\_\_\_  
 NAME: \_\_\_\_\_  
 (printed) \_\_\_\_\_

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SEAL (if signing under seal)

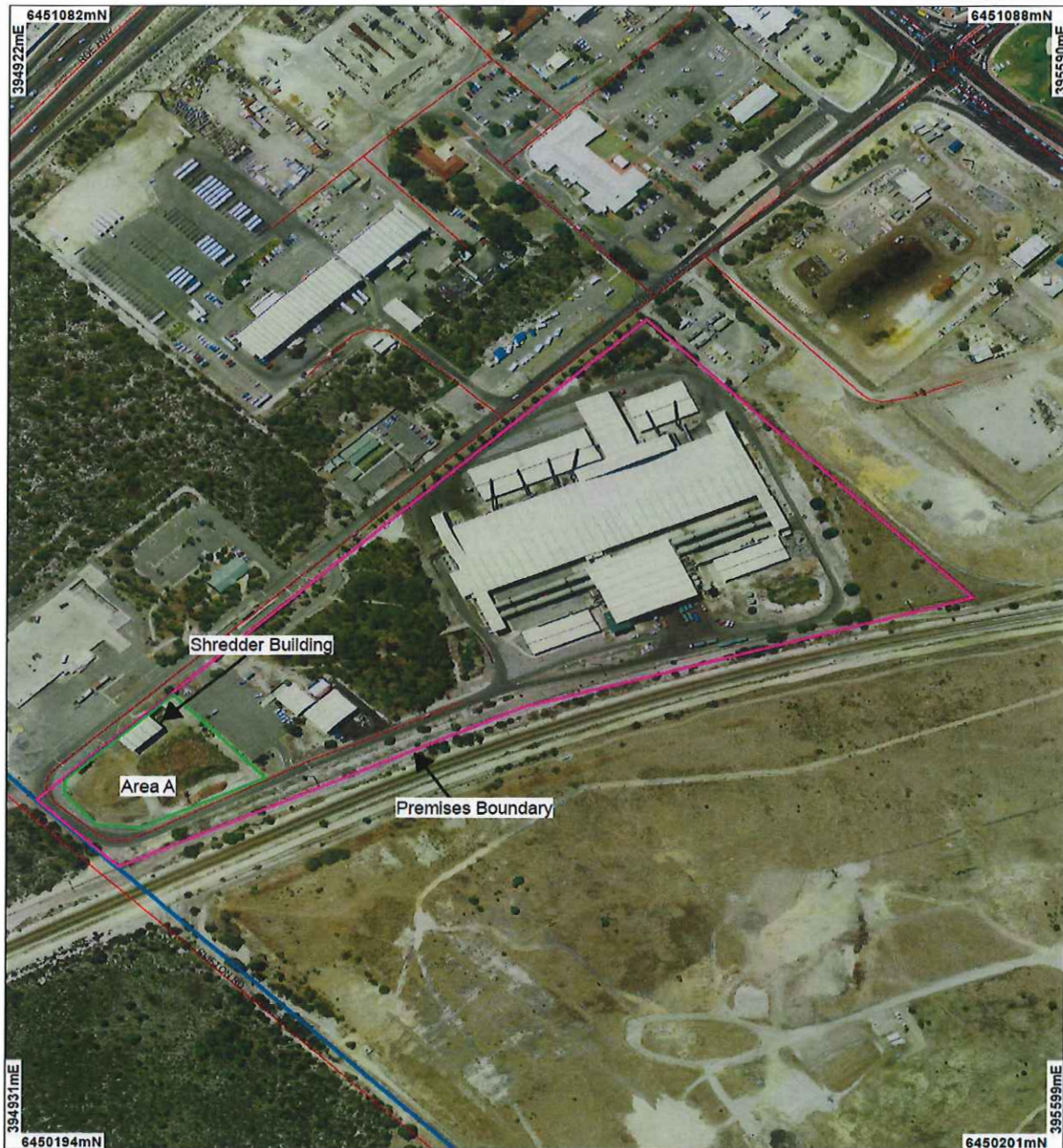
# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER: L7799/200187

FILE NUMBER: 2010/009948

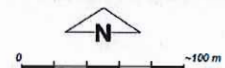
### ATTACHMENT 2 –PREMISES BOUNDARY



#### LEGEND

- Local Government Authorities
- Swan River Trust Development Control Area

- Road Centrelines
- Parth Metropolitan Central 15cm Orthomosaic - Landgate 2011



Scale 1:4105  
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Prepared by: jessicaf  
Prepared for:  
Date: 27/08/2014 9:48:25 AM

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Government of Western Australia  
Department of Environment Regulation  
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\* Project Data. This data has not been quality assured. Please contact map author for details.



# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

LICENCE NUMBER: L7799/2001/8

FILE NUMBER: 2010/009948

ATTACHMENT 3: Plan of Premises including Product Storage Shed and Digesters





# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** Southern Metropolitan Regional Council

**Licence:** L7799/2001/8

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**Registered office:** 9 Aldous Place  
BOORAGOON WA 6154

**Premises address:** Regional Resource Recovery Centre  
350 Bannister Road  
CANNING VALE WA 6155  
Being Lot 78 on Plan 2903 and Lot 77 on Plan 2903

**Issue date:** Thursday, 27 March 2014

**Commencement date:** Monday, 31 March 2014

**Expiry date:** Thursday, 30 March 2017

**Amendment Date:** Friday, 27 March 2015

### Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

Melissa Faassen  
Licensing Officer

Decision Document authorised by:

Marko Pasalich  
Manager Licensing





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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.



## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	67A	109 200
	61A	52 000
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO <sub>2</sub> requirements of Kwinana EPP.		



### 3 Executive summary of proposal and assessment

The Regional Resource Recovery Centre (RRRC) operated by the Southern Metropolitan Regional Council (SMRC) has been licensed under the *Environmental Protection Act 1986* since 2002 to operate a waste composting facility. The RRRC is located in the city of Canning within the Canning Vale industrial area. The premises is surrounded by a City of Canning Dog Pound, a Transperth Bus Depot and a Water Corporation Works Depot. The nearest sensitive human health receptors are located approximately 450 metres to the east of the premises, in the suburb of Leeming.

The RRRC accepts municipal and commercial putrescible waste for composting. Putrescible waste from municipal verge collection and commercial sources is tipped onto a tipping floor within a fully enclosed building. Large or dangerous items are removed before a front end loader pushes the material to feeders that take the waste to four segmented rotating digesters. Initial aerobic digestion occurs at about 55°C inside the digesters over approximately three days. Materials are then conveyed from the digesters to a primary screen and metals recovery area, while the non-metal coarse fraction is conveyed to landfill. The remaining material is matured in windrows and turned periodically in a fully enclosed aeration building for 4 to 6 weeks. The compost undergoes secondary screening to remove the remaining plastics and glass and is then stored in a load-out building before being transported off-site.

Greenwaste is received from commercial operators, householders and local government bulk greenwaste collection services. The fresh greenwaste is stored outside in a stockpile on a stabilised limestone hardstand before it is mulched by a shredder inside a shed. The greenwaste is continuously pushed up so the oldest is processed first. The mulch is stored inside the shredder shed until it is removed from site for use as mulch or further for off-site processing.

The main emission from the premises are odour and dust. Odour and dust emissions are minimised through the use of biofilters on the premises. Odorous air from the tipping building and digesters is directed through wet scrubbers to remove dust and humidify, before being discharged to the atmosphere through Biofilters 3 and 4. Odorous air from the aeration building is collected by a network of ducts and directed through humidifiers to Biofilters 1 and 2.

Historically the SMRC facility has been a cause of odour complaints in the Leeming area. The then Department of Environment and Conservation (DEC) issued an Environmental Protection Notice (EPN) in March 2009 requiring SMRC to investigate and resolve odour emission from its operations. In March 2012, the then DEC received numerous odour complaints from residents concerning unreasonable odour which was allegedly emanating from the premises.

In response to ongoing odour complaints from the community and technical issues from associated odour control equipment, on 30 March 2012, DEC issued a ten-week licence which required the RRRC to cease accepting household putrescible waste for composting from 14 April. The licence also required that the Licensee remove all compost generated using municipal putrescible waste from the site before the licence expired on 9 June 2012.

On 12 April 2012, SMRC applied for an amendment to its licence to allow receipt of waste pending an upgrade to the plant by 15 December 2012.

An amended licence was issued on 7 May, expiring on 30 March 2014, which included 21 new conditions, including the installation and commissioning of additional new odour treatment technology (wet scrubbers) by 15 December 2012.





On 22 February 2013, DEC received a copy of the Emission Test Report and Compliance Documentation from SMRC demonstrating that the equipment (wet scrubbers) had been built and was operating in accordance with its design parameters.

SMRC recommenced accepting waste at the RRRC for composting on 4 March 2013 with an initial volume of 200 tonnes per week, which progressively increased to 1,365 tonnes per week in the week ending 12 April 2013. SMRC operated at this capacity until 31 March 2014.

On 23 August 2013, DER received an application from SMRC requesting its licence be amended to increase throughput of waste for composting by 26.7% from 71,000 to 90,000 tonnes per annum. The original application was incomplete and SMRC was required to provide additional supporting information in order to demonstrate that the biofilter system was able to cope under high temperatures over the summer period. The new equipment was tested through the summer months and, after some adjustment to the scrubbers on two of the biofilters, operated satisfactorily.

On 27 March 2014, the Department of Environment Regulation (DER) issued a licence permitting an increase in throughput from 71,000 tonnes to 95,000 tonnes per year and limiting the monthly throughput to 8150 tonnes. The conditions of licence were appealed by SMRC and the licence was amended to incorporate the Ministers decision of 30 July 2014. The Ministers decision included allowing a monthly limit of 9000 tonnes.

Since the completion of upgrades and the installation of wet scrubbers, It has been demonstrated that humidification and temperature can be appropriately controlled in the biofilters particularly over the summer period.

This amendment is to remove the restrictions on waste acceptance. The amended license will permit the SMRC to operate to its capacity of 109,200 tonnes per year. This represents a 14.9% increase from its current capacity of 95,000 tonnes per year. The increase in throughput is not expected to have a significant impact on bio-filter emissions.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	2	N/A	<p>SMRC was originally licensed with a throughput of 109,200 tonnes of putrescible waste per annual period. In May 2012 following significant public complaints the licence was amended to restrict the annual capacity and place a monthly limit on throughput. SMRC have now requested an amendment to reinstate the original design capacity of 109,200 tonnes and to remove the monthly limit.</p> <p>During this period SMRC was also required to undertake upgrades to the biofilter system which required the installation of a wet scrubber system to improve humidification. Improved electronic continuous monitoring for temperature and humidity of both in and outlets of the scrubber was undertaken.</p> <p><b>Operation</b>  <u>Emission Description</u>  <i>Emission:</i> Odour emissions from putrescible waste stored and processed on site  <i>Impact:</i> Unpleasant odours can cause nuisance and impact the amenity of nearby sensitive receptors. Offensive odours can cause emotional stress and physical symptoms in affected individuals. The nearest sensitive receptor is 450 metres to the east of the premises, in the suburb of Leeming.  <i>Controls:</i> Odourous air from the tipping floor and each digester is captured and sent to biofilters 3 &amp; 4, while odourous air from the aeration hall is captured and sent to biofilters 1 &amp; 2. All four of these biofilters currently in place are designed to handle the maximum throughput based on the maximum airflow extraction</p>	<p>Application supporting documentation</p> <p>L7799/2001/8</p>



aeration will already take place, but rather they will receive a more sustained input as loads will be discharged both morning and night. The residence time for each load will not change and so the biofilter will maintain the same level of odour control.

All four biofilters are fitted with dedicated in line humidification vessels to ensure the inlet airstreams provide optimum conditions for the biofilters to achieve maximum odour treatment at all times. The system also involves automatic systems which continuously record inlet parameters and have alarm limits which significantly reduce the risk of human error.

The biofilters are maintained and managed in line with a Biofilter Management Plan (BMP). This plan outlines a variety of control measures such as monthly compliance testing, and refurbishment of biofilters every 2 to 4 years.

In the past 12 months SMRC have demonstrated that the licence odour limit of 500 odour units was never exceeded from biofilters 1 & 2, and was only exceeded 5 times from biofilters 3 & 4.

Risk Assessment

*Consequence:* Minor

*Likelihood:* Possible



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			<p><i>Risk Rating: Moderate</i></p> <p><u>Regulatory Controls</u> Condition 2 limits the throughput to the production capacity of 109,200 tonnes to ensure that no waste is processed above the capacity that the biofilters can effectively operate.</p> <p>Other conditions already imposed on the licence relating to odour control include:</p> <ul style="list-style-type: none"><li>• Condition 9 ensuring that putrescible waste is fed into the digesters within 72 hours so that odours are captured in the biofilter system</li><li>• Condition 17(a) – (c) placing odour unit limits, limits on biofilter humidity and temperature, and specifying management actions when the limits are not met.</li><li>• Conditions 20-25 relating to odour control and operation of pollution control equipment</li><li>• Conditions 38 – 39 requiring monitoring of biofilters</li></ul> <p><u>Residual Risk</u> <i>Consequence: Minor</i> <i>Likelihood: Unlikely</i> <i>Risk Rating: Moderate</i></p> <p>Condition 3 is removed as the increase to 109 200 tonnes over 12 months reflects the maximum operating capacity of the premises and so there is no need to limit monthly operations.</p>	
<b>Biofilter Management</b>	18	N/A	An updated version of the Biofilter Management Plan has been received and so the date has been updated to 1 January 2015.	Application Supporting Documentation





## 6 Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High