



Amendment Notice 1

Licence Number	L6896/1997/10
Licence Holder	Shire of Tammin
Registered business address	1 Donnan Street TAMMIN WA 6409
Date of amendment	9 February 2017
Prescribed Premises	Category 13: Crushing of building material Category 64: Putrescible landfill (Class III)
Premises	Tammin Refuse Site Crown Reserve 13163 Hunt Road SOUTH TAMMIN WA 6409

Amendment

The Chief Executive Officer (CEO) of the Department of Environment Regulation has amended the above licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice.

Date signed: 9 February 2017

Stephen Checker

MANAGER LICENCING (WASTE INDUSTRIES)

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

Amendment Notice

This Notice is issued under section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

Amendment Description

This Amendment Notice is as a result of a written request from the Shire of Tammin for the inclusion of:

1. Approval via licence condition to allow the burning of greenwaste at the Premises; and
 2. Approval via licence condition to accept and store waste oil and car batteries at the Premises,
- onto the Licence L6896/1997/10.

The Licensee does not propose construction of any additional infrastructure. There is an existing area that can be utilised to burn greenwaste and the Premises have an existing waste oil storage shed on site.

The proposed amendment of the Licence L6896/1997/10 is made by the Delegated Officer pursuant to section 59(1) (a) of the EP Act.

Risk Assessment

Table 1 - Risk assessment for the proposed amendments under operation

Activity	Potential emission	Potential receptors	Potential pathway	Potential impacts	Material risk	Reasoning
Category 64 – Burning of Greenwaste	Air: particulate matter resulting from the burning of greenwaste.	<p>Residential sensitive receptors: The closest sensitive residential receptor is approximately 1770m north west (Tammin town) and then rural residential 3550m south east and 4725m south of the Premises.</p> <p>Vegetation: No Threatened Flora or Priority Flora recorded within the operational area. Surrounding land is rural farmland (crop)</p>	Air/ Wind: Particulate matter (ash)	Elevated particulates (PM ₁₀ and PM _{2.5}) can impact health and amenity of sensitive receptors	Yes	<p>Emissions of particulate matter (ash) from the burning of greenwaste will be generated when greenwaste is burnt and is considered a Low risk as the burning of greenwaste will not significantly increase the potential risk of air emissions from the premises. The prevailing wind at 9am in the morning is East and West at 3pm (Southern Cross data - Bureau of Meteorology).</p> <p>The nearest sensitive receptor is a residential property at Tammin township 1770m north and then rural residential residents 3550m south east and 4725m south of the premises. The land fill is surrounded by rural properties zoned 'rural'.</p> <p>The Licensee has committed to the following:</p> <ul style="list-style-type: none"> • The greenwaste will be stored in the designated area within the landfill which comprises an area 20m wide, by 4m wide and 3m high which allows for approximately 160m³ of loose material; • The greenwaste will be allowed to dry prior to burning; • It will only be burned within the dedicated cleared burning area; • Greenwaste will only be burnt in low wind conditions; and • Burning will occur only with the supervision of site staff and local fire brigade volunteers and will be completed by 3pm the day it is burnt and will be completely extinguished before brigade volunteers and site staff leaves the Premises. <p>The Delegated Officer considers that potential risk of emissions is Low. In order that a Low risk rating is maintained for the burning of greenwaste the Delegated Officer considers that the following additional regulatory controls must be included on the licence when greenwaste is burnt on the premises:</p> <ul style="list-style-type: none"> • ensure the greenwaste is dry and seasoned for at least two months before being burnt; • ensure the greenwaste is burnt in a designated burning area as shown in Schedule 1; • provide an adequate water supply and distribution system to prevent fires from escaping beyond the greenwaste area; • burn greenwaste in a manner to minimise the generation of smoke; • burn greenwaste in windrows; • ensure burning does not commence before 8 a.m. and the Fire Control Officer for the landfill site declares the area safe by 3 p.m. on the same day; • ensure that, from the time burning commences until the Fire Control Officer for the premises declares the area safe;

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						<p>(a) a fire fighting vehicle carrying at least 500 litres of water, fitted with at least 30 metres of 19 mm diameter rubber hose and with a pump capacity capable of delivering a minimum of 250 litres of water per minute at a minimum of 700 kPA through a nozzle capable of projecting water by spray or by jet; and</p> <p>(b) 2 persons, who have such qualifications in fire fighting as are approved.</p> <p>These regulatory controls mirror the requirements of the <i>Environmental Protection (Rural Landfill) Regulations 2002</i> (Landfill Regulations) for the burning of greenwaste. The Landfill Regulations are applicable to rural landfill sites registered under the <i>Environmental Protection Regulations 1987</i> and includes sites comparable in size and operation to the Tammin Refuse Site. The Delegated Officer therefore considers these regulatory controls to be appropriate for the burning of greenwaste at the premises.</p> <p>The Delegated Officer noted that the applicant's commitment to end the burn by 3.00 pm on the same day varied from the requirements of the Landfill Regulations but considered this acceptable due to the expected size of the burns, the separation distance to receptors and the oversight of the burn by volunteer fire brigade.</p>
<p>Category 64 – storage of waste oil and car batteries</p>	<p>Seepage: Accidental leaks / spills of hydrocarbons and acids from car batteries</p>	<p>Groundwater</p> <p>Ephemeral surface water body 800m east of waste oil shed and battery site</p> <p>Local soils within the Premises</p>	<p>Land and groundwater – direct infiltration into soil and groundwater.</p> <p>Overland flow- direct overflow into ephemeral surface water body 800m east of the waste oil shed and battery site.</p>	<p>Alteration to soil and /or vegetation.</p> <p>Alteration to groundwater that has the potential to disrupt ecological processes of groundwater with excess hydrocarbons or acids</p> <p>Alteration to surface water that has the potential to disrupt ecological processes of surface water body with excess hydrocarbons or acids</p>	<p>No</p>	<p>Depth to groundwater is unknown. There is no groundwater monitoring bores at the Premises. The Delegated Officer considers that it is unlikely that accidental spills and leaks will infiltrate to groundwater as it is not expected that large volumes of waste oil or car batteries will be stored at the premises.</p> <p>Waste oil is drained into a sealed and bunded shed prior to transfer and disposal off-site. Car battery will be stored on spill trays and pallets on a bunded concrete floor and will be protected from the weather.</p> <p>The Delegated Officer considers that any unacceptable hydrocarbon or acid discharges can be effectively regulated under the <i>Environmental Protection (Unauthorised Discharge) Regulations 2004</i>.</p>

	<p>Noise: associated with operation of waste oil shed and storage of car batteries(light vehicle movements).</p>	<p>Residential sensitive receptors: The closest sensitive residential receptor is approximately 1770m north west (Tammin town) and then rural residential 3550m south east and 4725m south of the Premises.</p>	<p>Air/ Wind: Noise generated by light vehicles at the Premises</p>	<p>Amenity to nearby noise sensitive receptors</p>	<p>No</p>	<p>Noise emissions are not expected to significantly impact sensitive premises from additional light vehicle movement on site when vehicles drop off waste oil and car batteries. Facility is located within a low rural location zoned rural area, with the nearest sensitive residential receptor approximately 1770 m north west (Tammin town) of the premises.</p> <p>Based on the Licence Holder controls and given separation distances to residential sensitive receptors, the Delegated officer considers that the risk rating for noise is Low.</p> <p>The Licence Holder has an ongoing requirement to comply with the Prescribed standard for noise emissions, as set out in the <i>Environmental Protection (Noise) Regulation 1997</i>.</p>
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Decision

The Delegated Officer has determined that an amendment be made to the Licence with the inclusion of additional operational licence conditions to allow the burning of greenwaste at the Premises and Schedule 1 map to designate the location of the authorised greenwaste burning area. The amendment notice incorporates additional wording for Condition 4 that will allow the storage of waste oil and car batteries on site, condition 21 is amended to allow the burning of greenwaste and a definition of Fire Control Officer. The storage of waste oil and car batteries does not trigger the production and design capacity of 500 tonnes per annual period for Category 62 prescribed premises.

The Delegated Officer considers the additional conditions proposed will adequately address issues of risk related to air emissions (particulate matter from fire as a result of the proposal to burn greenwaste at the premises).

The Delegated Officer considers the additional conditions as appropriate and in line with other premises as assessed across the State, and in accordance with DER's regulatory approach.

The Delegated Officer has considered DER's *Guidance Statement: Regulatory Principles*, *Guidance Statement: Setting Conditions* and *Guidance Statement: Risk Assessment* in granting this amendment, and does not consider that this amendment will impact the risk profile of the premises, which is currently considered as Moderate.

Amendment History

Instrument	Issued	Amendment
L6896/1997/10	29/04/2016	Licence amendment for the extension of the Licence duration to 8 August 2035.
L6896/1997/10	9/02/2017	Licence amendment for the inclusion of licence conditions to allow burning of greenwaste and storage of waste oil and car batteries.

Licence Holder's Comments

The Licence Holder was provided with the draft Amendment Notice on 13 January 2017. The Licence Holder did not provide any comments or submit the waiver.

Amendment

1. The 'Definitions' section of the licence has been updated to include the following definitions:

'Fire Control Officer' means a person who has such qualification in fire fighting or fire control and is approved and appointed to that position by the occupier of the premises;

2. Condition 4 is amended by the inclusion of the red text shown below:

- 4 The licensee shall accept only the following types of waste at the premises:
 - a) clean fill;
 - b) inert Waste Type 1;
 - c) inert Waste Type 2;
 - d) putrescible wastes;
 - e) green waste;
 - f) special Wastes Type 1 (asbestos waste); and
 - g) hazardous wastes accepted for storage only (limited to waste oil and used vehicle batteries)

3. The Licence is amended by the inclusion of the following condition, identified as 'Burning of Greenwaste' and by the inclusion of 'Schedule 1', shown below:

Burning of Greenwaste

- 9a The Licensee must ensure that when greenwaste is burnt on the premises, the licensee, or a person nominated by the licensee, shall:
 - (i) ensure the greenwaste is dry and seasoned for at least two months before being burnt;
 - (ii) ensure the greenwaste is burnt in a designated burning area as shown in Schedule 1;
 - (iii) provide an adequate water supply and distribution system to prevent fires from escaping beyond the greenwaste area;
 - (iv) burn greenwaste in a manner to minimise the generation of smoke;
 - (v) burn greenwaste in windrows;
 - (vi) ensure burning does not commence before 8 a.m. and the Fire Control Officer for the landfill site declares the area safe by 3 p.m. on the same day;
 - (vii) ensure that, from the time burning commences until the Fire Control Officer for the premises declares the area safe;
 - (a) a fire fighting vehicle carrying at least 500 litres of water, fitted with at least 30 metres of 19 mm diameter rubber hose and with a pump capacity capable of delivering a minimum of 250 litres of water per minute at a minimum of 700 kPA through a nozzle capable of projecting water by spray or by jet; and
 - (b) 2 persons, who have such qualifications in fire fighting as are approved.

4. Condition 21 is amended by the inclusion of the red text shown below:

21 The licensee shall not burn, or allow the burning of any waste **except greenwaste** on the premises.

Appendix 1: Key Documents

	Document Title	In text ref	Availability
1	Licence L6896/1997/10 – Tammin Refuse Disposal Site	L6896/1997/10	accessed at http://www.der.wa.gov.au
2	DER, July 2015. <i>Guidance Statement: Regulatory principles.</i> Department of Environment Regulation, Perth.	DER 2015a	accessed at http://www.der.wa.gov.au
3	DER, October 2015. <i>Guidance Statement: Setting conditions.</i> Department of Environment Regulation, Perth.	DER 2015b	
4	DER, August 2016. <i>Guidance Statement: Licence duration.</i> Department of Environment Regulation, Perth.	DER 2016a	
5	DER, November 2016. <i>Guidance Statement: Risk Assessments.</i> Department of Environment Regulation, Perth.	DER 2016b	
6	DER, November 2016. <i>Guidance Statement: Decision Making.</i> Department of Environment Regulation, Perth.	DER 2016c	

Schedule 1: Greenwaste Burning Area

