



Licence Number	L6853/1997/14
Licence Holder	Shire of Perenjori
Registered business address	44 Fowler Street PERENJORI WA 6620
Date of amendment	16 February 2017
Prescribed Premises	Category 64: Class II putrescible landfill site
Premises	Latham Landfill Site Summers Road LATHAM WA 6616 Being a portion of Latham Townsite Lot 77

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: 16 February 2017

Steve 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 received from Shire of Perenjori (Licence Holder), on 13 December 2016, for an amendment to Licence conditions 1.3.4(b), 1.3.5, 1.3.6 and 1.3.7(a)-(c).

The amendment relates to the correction of inconsistencies in waste cover requirements within the licence and the removal of a requirement for the locking of gates as no gates are present onsite.

The proposed amendment of the Licence L6853/1997/14 is made by the Delegated Officer pursuant to section 59(1) (a) of the EP Act.

Location, environmental siting and potential receptors

Table 1: Receptors and distance from prescribed premises

Receptor	Distance from Prescribed Premises
'Conservation' zoned area (Local authority reserve)	Adjoining premises boundary to the west, south
'Rural' zoned farming area	Adjoining premises boundary to the north and east
Bowling green and recreational area	Approximately 400 m north west of the premises boundary
Surface water body – catchment dam	Approximately 860 m south west of the premises boundary
Townsite residences	Approximately 1.4 km south west of the premises boundary

Risk assessment

Table 2 below describes the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments* and identifies whether the emissions present a material risk to human health or the environment, requiring regulatory controls.

Risk Assessment

This risk assessment below is undertaken in accordance with DER *Guidance Statement: Risk Assessments*.

Table 2 - Risk assessment for the proposed amendments under operation

Activity	Potential emission	Potential receptors	Potential pathway	Potential impacts	Material risk	Reasoning
Storage and burial of Inert waste type 2 (tyres)	Fire: resulting in the combustion of tyres which will cause air emissions	Residential receptors approximately 1,4 km south west.	Air/ Wind dispersion of smoke and particulate matter (fugitive dust)	Amenity and health impacts. Elevated total suspended particulates (TSP) and particulate matter can impact health and amenity of receptors	Yes	<p>The premises is located within a rural, low population density location with no daily management of the site however waste volumes received to the premises are low (maximum of 500 tonnes per annual period).</p> <p>The main potential emissions from the site under normal operating conditions are fugitive emissions in the form of dust and odour. Given the relatively small scale use of the site, the emissions are managed via covering and compaction of waste as well as progressively restoring the site to minimise the exposure of waste.</p> <p>The Delegated Office considers that it is possible that emissions of smoke and dust particulates as a result of accidental burning of stored tyres at the Premises may cause a moderate impact to the health and amenity of receptors. The Delegated Officer considers these emissions to pose a medium risk.</p>
	Fire: Leachate (from fire suppression)	Groundwater; Landfill adjoins 'conservation' and 'rural' zoned area.	Discharge to land; infiltration to groundwater	Land, surface water and groundwater contamination.	Yes	<p>The depth to groundwater at the premises is unknown. Information from the Department of Water (DoW) Water Information System (WIN) holds limited hydrological data of a groundwater bore approximately 180 meters (m) to the north-west of the premises; Latham bore PWD Bore No. 2. Measurements collected from this bore in June 1969 recorded a standing water level of 3.12 metres below ground level (mbgl) and a total dissolved solids (TDS) concentration of 5,573 milligrams per litre (mg/L), indicating saline water quality. There is no recent data publically available for this well. A desktop assessment of the area provided the following summation of groundwater quality in the general area; monitoring to the west of the premises shows TDS at 2,870mg/L, 9.3 mbgl but varies up to 5,573 mg/L, 32.9 mbgl to the north of the premises.</p> <p>Based on the infrequency of tyre fire events , the Delegated Officer considers that the consequence from tyre suppression water runoff would be minor and the likelihood is possible under normal operational circumstances. Therefore the potential risk of emissions is considered medium.</p>

Decision

The Delegated Officer has determined that an amendment be made to the Licence to address the items raised by the Licensee. The Delegated Office has determined that the amendments will not result in emissions that are unacceptable to public health or the environment and do not alter the potential emissions emission risk at the Premises, established as 'moderate'.

The Delegated Officer noted that condition 1.3.4(b) and condition 1.3.5 contained conflicting requirements regarding the cover of waste. The Delegated Officer considers the removal of condition 1.3.4(b) as appropriate. The Delegated Officer considers that cover requirements have been adequately addressed within condition 1.3.5, table 1.3.3 of the Licence and that condition 1.3.4(b), requiring daily cover, is overly onerous and inconsistent with the requirements for landfills of similar size and risk rating.

The Delegated Officer has determined that a change is to be made to condition 1.3.5, table 1.3.3 'Inert waste type 2' to reflect the management of the premises which is only visited by the Licence Holder on a monthly basis, not daily, therefore burial is only possible on a monthly basis. Additional regulatory controls have been included in relation to tyre management due to potential fire risk in accordance with the risk assessment in table 2 above. The following additional regulatory controls have been included within condition 1.3.5 in relation to tyres:

- Stacked and stored in bundles of less than 100 tyres, at least three metres apart, prior to final burial on at least a monthly frequency.

The Delegated Officer considers that the new regulatory controls will minimise the risk of fire and minimise the risk of unmanageable fire associated with tyre storage onsite.

The Delegated Officer considers condition 1.3.6 and 1.3.7 (a-c) are redundant and will be removed as the Premises does not include any gates attached to the fenced area. The Premises is fenced but is unmanned and accessible through open entry points to the site. The management of any unauthorised access to the Premises is the responsibility of the Licence Holder.

The Delegated Officer considers the changes proposed will more appropriately describe the activities currently being undertaken at the premises and address DER compliance issues raised through the 2016 Inspection. The Delegated Officer considers that no additional risks will occur as a result of these changes.

The Delegated Officer considers the changes to the above conditions are 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*, *Guidance Statement: Risk Assessment* and *Guidance Statement: Decision Making* in granting this Amendment Notice.

Amendment History

Instrument	Issued	Amendment
L6853/1997/14	16/02/2017	Licence amendment for administrative changes to conditions

Amendment

- Condition 1.3.4 has been amended by the removal of the 'strike through' text as shown below:

- 1.3.4 The Licensee shall manage the landfilling activities to ensure:
- waste is levelled and compacted to ensure all faces are stable and capable of retaining rehabilitation material;
 - ~~waste is covered as soon as possible after it is discharged and not later than by the end of the working day; and~~
 - rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.

- Condition 1.3.5, table 1.3.3 'Inert waste type 2' has been updated to reflect the following changes as shown by 'strike through' and red text below:

- 1.3.5 The Licensee shall ensure that cover is applied and maintained on landfilled waste in accordance with Table 1.3.3 and that sufficient stockpiles of cover are maintained on site at all times.

Waste Type	Material	Depth	Timescales
Inert Waste Type 1	Inert waste type 1 or soil (clean fill)	-	No cover required.
Putrescible Waste		200mm	As soon as practicable after deposit, and no later than on a monthly frequency.
Inert Waste Type 2		300mm	By the end of the working day in which the waste was deposited Stacked and stored in bundles of less than 100 tyres Bundles are stored at least three metres apart. Final burial of bundles occurs on at least a monthly frequency.
Special Waste Type 1		1000mm	By the end of the working day in which the waste was deposited.
Contaminated solid wastes		200mm	As soon as practicable after deposit, and no later than on a monthly frequency.
All wastes – final cover	Soil (clean fill)	1000mm	Within 3 months of achieving final waste contours.

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the Environmental Protection Regulations 1987.

- Condition 1.3.6 has been removed as shown by the 'strike through' text below:

- ~~1.3.6 The Licensee shall ensure that there is a fence around the boundary of the site which is an effective barrier for cattle, horses and other stock.~~

4 Condition 1.3.7 has been amended with the removal of the 'strike through' text as shown below:

1.3.7 *The Licensee shall implement the following security measures at the site:*

- ~~(a) erect and maintain suitable fencing to prevent unauthorised access to the site; and~~
- ~~(b) ensure that any entrance gates to the premises are securely locked when the premises are [unattended/closed];-~~
- ~~(c) undertake regular inspections of all security measures and repair damage as soon as practicable; and~~
- (d) *Install and maintain a sign at the entrance to the Premises which clearly displays the following information:*
 - (i) *hours of operation;*
 - (ii) *contact telephone number;*
 - (iii) *warning indicating penalties for people lighting fires; and*
 - (iv) *list of materials accepted for recycling and the location of where they can be deposited on the premises.*

Appendix 1: Summary of Licence Holder comments

Comments received	DER consideration of risk
Signed waiver form received from Mr Ken Markham (Shire of Perenjori) via email dated 2 February 2017. No changes requested or comments received.	N/A.