



Licence Number L7081/1997/10

Licence Holder Shire of Mount Magnet

ABN 14 556 214 295

File Number: 2010/003298

Premises Mt Magnet Refuse Site
Lot 624 on Plan 404903
Crown Reserve 44366
Tip Road
MOUNT MAGNET WA 6638

Date of Amendment 22 September 2017

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.


Stephen Checker
MANAGER LICENCING (WASTE INDUSTRIES)

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

Definitions and interpretation

Definitions

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

Table 1: Definitions

Term	Definition
AACR	Annual Audit Compliance Report
ABN	Australian Business Number
AER	Annual Environment Report
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info-der@dwer.wa.gov.au
CS Act	<i>Contaminated Sites Act 2003 (WA)</i>
Decision Report	refers to this document
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review
Licence Holder	Shire of Mount Magnet
m ³	cubic metres

Minister	the Minister responsible for the EP Act and associated regulations
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in <i>Guidance Statement: Risk Assessment</i>
UDR	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)</i>

Amendment Notice

This amendment is made pursuant to 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.

This notice is limited only to an amendment for the inclusion of Category 63 activity to allow for the acceptance of inert Waste. No changes to the aspects of the original Licence relating to Category 12 have been requested by the Licence Holder.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Land Use Planning (February 2017)*
- *Guidance Statement: Licence Duration (August 2016)*
- *Guidance Statement: Decision Making (November 2016)*
- *Guidance Statement: Risk Assessment (November 2016)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

The Mount Magnet Refuse Site is located on Lot 624 Tip Road, Mount Magnet WA and is located approximately 2.5 kilometres (km) east north east (ENE) from the centre of the Town of Mount Magnet. The premises is surrounded by mining and pastoral activities and is located in an arid area which consists of hot dry summers and mild winters.

The facility operates as a Category 64 Putrescible Landfill site. The site is unmanned with weekly inspections being carried out to monitor conditions onsite. The nearest residence is approximately 2km from the site. The liquid waste has been historically received at the facility including domestic septic waste from town site properties, grease trap waste from licensed food premises and sometimes from local mine site. The liquid waste is managed through a series of fourteen unlined shallow trenches, where the high evaporation rate locally allows quick drying of the waste and thereby the removal of the dry sludge to landfill (putrescible cell) in a short space of time.

The site has historically received liquid waste above the threshold of 100 tonnes or more per annual period and the Licence Holder has applied to include category 61 to the Licence.

This amendment is to allow the acceptance and disposal of liquid waste at the facility. The Licence Holder does not propose construction of any additional infrastructure.

The Licensee has requested that the licence be amended to include Category 61 activity for the acceptance and disposal of septage waste and grease trap waste in the trenches at a capacity of 1,200 tonnes per annum.

The applicant has confirmed that:

- The trenching system is not lined;
- There are 14 trenches measuring 70m long, 3.5m wide and 0.5m deep;
- The site is situated well over 5 km from the declared water protections zones;
- There are no water supplies drawn from this area;
- Bores used for reticulation average about 60 metres (m) in depth to the water table;
- The soil is a mixture of solid granite in places, coffee rock, gravel clay (white) and has

very little permeability as does the whole of the area; and

- There are no water courses in the close proximity.

The then Department of water (DOW) and now Department of Water and Environment Regulation's (DWER) Land Use Planning Team provided the following advice as it was presumed that the site was approximately 5km away from a water reserve area:

- Crown Reserve 44366 is outside the recharge area for the P1 area and borefield (10km);
- Surface water appears to drain south and not be connected to the creek system leading to the borefield.

The amendment of the Licence L7081/1997/10 is made by the Delegated Officer pursuant to section 59(1) (a) of the EP Act.

Table 2 below outlines the proposed changes to the Licence.

Table 2: Proposed changes

Category	Current [design] [throughput] capacity	Proposed [design] [throughput] capacity	Description of proposed amendment
61	Less than 100 tonnes	1,200 tonnes	Addition of category 61 onto the Licence (L7081/1997/10) The schedule 1 premises map has been updated to reflect the new premises boundary. The address for the prescribed premises has also changed due to the expansion of the reserve.

Other approvals

The Shire of Mount Magnet advised DWER on 31 July 2017 that planning approval for the proposed activity is not required.

Amendment history

Table 3 provides the amendment history for L7081/1997/10.

Table 3: Licence amendments

Instrument	Issued	Amendment
L7081/1997/10	3/07/2014	Amendment to convert existing licence to a new format
L7081/1997/10	29/4/2016	Licence amendment for the extension of the Licence duration to 6 July 2026.
L7081/1997/10	14/09/2017	Amendment Notice 1- inclusion of category 61 onto the Licence, prescribed premises map and address updated

Location and receptors

Table 4 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 4: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
The townsite of Mount Magnet	Approximately 2.5 kilometres (km) east north east (ENE) from the centre of the Town of Mount Magnet
Residential property	The nearest residential property is located 2km from the site.

Risk assessment

Table 5 below describes the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Table 7 identifies whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 5: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Category 61 – Liquid waste facility	Dust: from moving vehicles associated with the acceptance and disposal of liquid waste	Residential sensitive receptors: The closest sensitive residential receptor is a residential property located approximately 2km from the site and the next closest receptor is the townsite of Mount Magnet, which is located approximately 2.5 km from the site.	Air/ Wind: Dust generated by light and heavy vehicles at the Premises and while disposing liquid waste into the trench.	Elevated particulates (PM ₁₀ and PM _{2.5}) can impact health and amenity of sensitive receptors	Slight	Unlikely	Low	Fugitive dust emissions from additional light and heavy vehicle movement on site and when disposing liquid waste into the trench are not expected to significantly impact sensitive premises. The nearest sensitive residential receptor is situated approximately 2 km from the site. Current licence condition 2.6.1 requires the Licensee to ensure no fugitive dust crosses the boundary. The Delegated Officer also considers that the provisions of Section 49 of the Environmental Protection Act 1986 are sufficient to regulate dust emissions during operation; therefore the risk is considered low and does not require any further regulatory controls.
	Acceptance and storage of septage waste.	Odour: from liquid waste accepted and disposed onsite	Residential sensitive receptors: The closest sensitive residential receptor is a residential property located approximately 2km from the site and the next closest receptor is the townsite of Mount Magnet, which is located approximately 2.5 km from the site.	Air/ Wind: Odour emitted while disposing liquid waste into the trench.	Amenity Impacts	Slight	Unlikely	Low

Decision

The Delegated Officer has determined that an amendment be made to the Licence conditions to allow for the inclusion of Category 61 activity with a production design capacity of 1,200 tonnes per annual period. This is to allow for the disposal of septage and grease trap waste only.

The amendment notice incorporates amending the Prescribed premises category table on the licence cover page to include Category 61 activities and including licence condition 1.3.1 Table 1.3.1 that will permit the Licensee to accept 1,200 tonnes of liquid waste. Licence condition 1.3.2 will require the Licence Holder to provide to the CEO volumes of waste received. The schedule 1 premises map has been updated to reflect the new premises boundary for the site. The premises address has changed as also due to the expansion of the reserve. No other changes are required on the licence.

The Delegated Officer considers the amended condition as appropriate and in line with other premises as assessed across the State, and in accordance with DWER's regulatory approach.

The Delegated Officer does not consider that this amendment will impact the risk profile of the premises, which is currently considered as Low.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 25 August 2017. The Licence Holder responded on 7 September 2017 waiving the remaining comment period.

Amendment

1. The Prescribed premises address on the cover page of the Licence has been amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Premises : Mt Magnet Refuse Site

~~Lot 145 on Plan 219084~~

Lot 624 on Plan 404903

Crown Reserve 44366

Tip Road

MOUNT MAGNET WA 6638

2. The 'Prescribed premises category' table on the cover page of the Licence has amended by the insertion of the red text shown in underline below:

Prescribed premises category

Schedule 1 of the Environmental Protection Regulations 1987

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
64	<i>Class II or III putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by</i>	<i>20 tonnes or more per year</i>	<i>5,000 tonnes per annual period</i>

	the Chief Executive Officer and as amended from time to time) is accepted for burial		
<u>61</u>	<u>Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated</u>	<u>100 tonnes or more per year</u>	<u>1 200 tonnes per annual period</u>

3. The Licence condition 1.3.1 and Table 1.3.1 is amended by the insertion of the red text in underline below:

- 1.3.1 The License Holder shall only accept waste to be accepted on to the Premises if:
- it is of a type listed in Table 1.3.1; and
 - the quantity accepted is below any quantity limit listed in Table 1.3.1; and
 - it meets any specification listed in Table 1.3.1.

Table 1.3.1: Waste acceptance		
Waste	Quantity limit tonnes/ year	Specification¹
Clean fill	Combined total of 5,000 tonnes per annual period	None specified
Inert Waste Type 1		None specified
Inert Waste Type 2		None specified
Putrescible waste (including green waste)		None specified
Special Waste Type 1 (asbestos waste)		Must be wrapped in heavy plastic prior to acceptance
Special Waste Type 2 (biomedical waste)		None specified
Contaminated Solid Waste		Must be supported by documentation that demonstrates compliance with the acceptance criteria for Class II landfills as defined in the document "Landfill Waste Classification and Waste Definitions 1996 (As amended)"
<u>Liquid Waste</u>	<u>1,200 tonnes per annual period</u>	<u>Septage (K210) and grease trap waste (K110). Delivered in liquid waste truck.</u>

Note 1: Additional requirements for the acceptance of controlled waste are set out in the Environmental Protection (Controlled Waste) Regulations 2004.

4. The Licence has been amended by the insertion of condition 1.3.12 shown in red text and underline below

1.3.12 The Licence Holder must provide to the CEO a summary of the volumes of waste input received at the Premises with the Annual Environmental Report required under condition 5.2.1.

5. Condition 5.2.1 of the licence has been amended by the insertion of the red text shown in underline below

Table 5.2.1: Annual Environmental Report		
Condition or table	Parameter	Format or form

<i>(if relevant)</i>		
-	<i>Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken</i>	<i>None specified</i>
<u>1.3.12</u>	<u>Summary of volumes of waste inputs</u>	<u>None specified</u>
2.6.1	<i>Measures taken to suppress dust</i>	<i>None specified</i>
1.3.9	<i>Number of fires at the premises</i>	<i>None specified</i>
5.1.3	<i>Compliance</i>	<i>Annual Audit Compliance Report (AACR)</i>
5.1.4	<i>Complaints</i>	<i>None specified</i>

6. The Licence is amended by replacing the Premises map in Schedule 1 with the Premises map below:

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L7081/1997/10 – Mt Magnet Refuse Site	L7081/1997/10	accessed at www.dwer.wa.gov.au
2	Licence amendment application	L7081/1997/10	DWER records (A1450319)
5	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
6	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	DER 2015b	
7	DER, August 2016. <i>Guidance Statement: Licence duration</i> . Department of Environment Regulation, Perth.	DER 2016a	
8	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	DER 2016b	
9	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	