



Application for Licence Amendment

Part V Division 3 of the *Environmental Protection Act 1986*

Licence Number	L6919/1997/11
Licence Holder	Shire of Katanning
File Number	DEC6733/2
Premises	<p>Katanning Shire Refuse Site Katanning-Nyabing Rd</p> <p>Legal description</p> <p>Part of/Lot 9241 on Plan 215173 Crown Reserve 6044, Lot 9242 on Plan 21573 Crown Reserve 37590 and Lot 3943 on Plan 125479 Crown Reserve 10023</p> <p>As defined by the coordinates in Schedule 1 of the Revised Licence</p>
Date of Report	18 October 2024
Proposed Decision	Revised licence granted

GRACE HEYDON

MANAGER WASTE INDUSTRIES

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

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1. Decision summary

Licence L6919/1997/11 is held by Shire of Katanning (Licence Holder) for the Katanning Shire Refuse Site (the Premises), located at within Crown Reserve 6044, 37590 and 10023, Katanning-Nyabing Road, Katanning 6317.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the operation of the Premises. As a result of this assessment, Revised Licence L6919/1997/11 has been granted.

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises. The Revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Amendment summary

On 5 June 2024, the Licence Holder submitted an application to the department to amend Licence L6919/1997/11 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- to increase the design capacity for Category 61 from 200 tonnes to 1000 tonnes; and
- the addition of Category 62: Solid waste depot.

This amendment is limited only to changes relating to Category 61 and Category 62 activities. No changes to the aspects of the existing Licence relating to Categories 57 and 64 have been requested by the Licence Holder. Table 1 below outlines the proposed changes to the existing Licence.

Table 1: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
Category 57	<1,000 tyres at any one time	N/A	N/A
Category 64	< 5000 tonnes per year	N/A	N/A
Category 61	200 tonnes per year	1000 tonnes per year	Increase in annual throughput
Category 62	N/A	5000 tonnes per year	Addition of category 62 activities

2.3 Background

The Licence Holder was granted a Works Approval (W5952/2016/1) for the Premises on 1 April 2016 which expired on 3 April 2019 for the construction works for Category 62. While majority of the construction works were completed under Works Approval (W5952/2016/1), the Licence Holder advised DWER, that outstanding construction works may take a further three to four months to complete.

Works Approval (W6272/2019/1) was granted on 29 August 2019 to complete the outstanding works with the following condition to support the licence amendment application process:

- a report from a suitably qualified professional confirming and certifying that each item of infrastructure has been constructed with no defects and to the requirements specified in the works approval.

The above report was submitted to the department on 27 January 2021 and reviewed to confirm compliance with Works Approval conditions. On 26 August 2024, the department advised the Licence Holder that compliance with conditions 1, 2, 3 and 4 of Works approval W6272/2019/1 had been demonstrated and that the licence amendment application for the premises has been accepted.

2.4 Overview of Premises

The Katanning Shire Refuse Site is located east of the town of Katanning. Surrounding land uses include rural, recreation and open space with the landfill premises being classified as public purposes under Town Planning Scheme No. 5 (LPS5).

The Licence Holder currently has two liquid waste ponds on site and have been accepting and storing small volumes of liquid waste (200 tonnes per year). The department received a licence amendment application from the Licence Holder to align the sites liquid waste acceptance limit with the design capacity of the existing ponds since the premises is the only approved liquid waste facility within a 120km radius.

2.5 Operational aspects

The following information in relation to the receipt, storage and treatment of liquid waste has been summarised from the application:

- The liquid waste facility consists of two clay lined ponds which are 30m long x 12 m wide x 2m deep;
- each pond has the capacity to receive 540 kL of liquid waste (excluding 0.5m freeboard);
- the ponds freeboard is designed to contain leachate and storm water produced as a result of a 1 in 100-year storm event;
- the Licence Holder receives liquid waste from licensed liquid waste contractors only;
- all liquid waste arriving on site is discharged directly into the liquid waste ponds;
- the Licence Holder only accepts waste from grease traps (K110) and septage waste (K210);
- the Licence Holder operates one pond at a time which allows for drying time and cleaning out of sludge build up; and
- the liquid waste ponds were designed to achieve a permeability of 1×10^{-9} m/s or less.

2.6 Consolidation of Licence

As part of this amendment package the department has consolidated the licence by incorporating changes made under the Amendment Notice as summarised in Table 2.

Table 2: Licences consolidated in this amendment

Instrument	Issued	Summary of approval
L6919/1997/10	31/03/2011	Licence amendment (update special waste, inert waste, green waste, used tyres and stormwater conditions).
23/01/2014	L6919/1997/11	Licence amendment to extend expiry date to 2025.
L6919/1997/11	29/04/2016	Notice of Amendment of Licence Expiry Dates Section 59B(9)(1)(k) <i>Environmental Protection Act 1986</i> Licenced Prescribed Premises
L6919/1997/11	05/04/2019	Amendment Notice 1: add category 61 to existing license and incorporating the two adjoining historical crown reserves (37590 and 10023) to the existing licence site boundary.
L6919/1997/11	16/05/2022	Notice of Amendment of Licence Report Requirements Section 59(2), Section 59(1)(a) and 59(1)(b) <i>Environmental Protection Act 1986</i> Licenced Prescribed Premises
L6919/1997/11	18/10/2024	Licence amendment to add Category 62 activities and increase Category 61 design capacity.

The obligations of the Licence Holder have not changed in consolidating the licence. No changes to existing, approved prescribed premises categories, throughput, infrastructure, wastes, emissions or discharge points are being proposed as part of this application.

The department has not undertaken any additional risk assessment of the Premises relating to current activities carried out on site.

In consolidating the licence, the CEO has:

- updated the format and appearance of the Licence;
- deleted the redundant AACR form set out in schedule 1 of the previous licence and advise the Licensee to obtain the form from the department's website;
- revised licence condition's numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The full consolidation of licence conditions as they relate to this Revised Licence are detailed in Section 5.1. Previously issued Amendment Notices will remain on the department's website for future reference and will act as a record of the department's decision making.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

Potential emissions and impacts associated with the solid waste depot are assessed in Works Approval W5952/2016/1 and W6272/2019/1.

Environmental risk associated with the operation of Category 61 and Category 62 activities are assessed as follows.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this Amendment Report are detailed in Table 3 below. Table 3 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 3: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Dust	Vehicle movements – discharge liquid waste, inert waste type 1, inert waste type 2, hazardous, waste, scrap metals, white goods, waste oil and drum muster compounds.	Air/windborne pathway	Onsite speed limited to 10 km/h; Use of water cart for wetting down of roads when required. All material handling will be confined to the designated areas. Wetting-down of waste materials with potential to generate dust.
Noise	Vehicle movements – discharge liquid waste, inert waste type 1, inert waste type 2, hazardous, waste, scrap metals, white goods, waste oil and drum muster compounds.	Air/windborne pathway	Facility only to be operated between “day-time” hours (7am to 7pm, Mon – Friday, 7am -3pm Sat); Will adhere to the the provisions of the Environmental Protection (Noise) Regulations 2002. Premises not expected to receive more than approximately 10 vehicles per week.
Seepage: leachate migrating	Storage of Septage (K210) waste and Sewage (K130)	Seepage to soils and groundwater	Pond constructed with compacted insitu clay soil to meet not less than 1×10^{-9} m/s permeability. A freeboard at or greater than 500 mm is targeted
Odour	Acceptance, storage and treatment of septage waste (K210) and Sewage (K130)	Air/windborne pathway	No controls provided. The operations will possibly generate odour. However, licence condition 14 requires 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. The Delegated Officer also considers that Section 49 of the <i>Environmental Protection Act 1986</i> are sufficient to regulate odour emissions during operation therefore, the

Emission	Sources	Potential pathways	Proposed controls
			risk is considered low and does not require any further regulatory controls.
Spillage of hazardous wastes	Acceptance, handling, storage and accidental spillage of hazardous wastes, drum muster compound	Seepage to ground – causing impact to native ecosystem and groundwater quality	<p>The above ground, bunded, metal tank is located within a bunded, concrete hardstand and limestone block are</p> <p>The oil receptacle includes a roofed structure, with gutters and downpipes to divert uncontaminated stormwater runoff to the outside of the bunded area.</p> <p>The bunded area has been designed to contain 110% of the volume of the storage containers/vessels.</p> <p>The bund design includes steps and a raised platform to assist with decanting of waste oils.</p> <p>Batteries, including used lead acid batteries, are bunded and stored undercover in a shed.</p> <p>The drum muster facility has a metal mesh roof, metal mesh walls and a concrete floor.</p> <p>Uncontaminated runoff from the roof is diverted to the outside of the bunded area.</p> <p>Only triple rinsed containers are accepted onsite.</p> <p>Batteries are stored under cover in 780L sealed bins.</p>

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder’s from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 4 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)).

Table 4: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Residential Premises	<p>The closest residential receptor is located approximately 470m to the east of the premises.</p> <p>DWER guidance statement for separation distances to sensitive receptors recommends that separation distance need to be determined case by case for the mitigation or management of odour and noise issues for Category 61</p>

	and 200m for Category 62.
Environmental receptors	Distance from prescribed activity
The subject site lies within the same catchment as the Ramsar site Toolibin lake.	Approximately 100km to the north.
Groundwater	Depth to groundwater encountered at approximately 8.2 mBGL.

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 5.

The Revised Licence L6919/1979/11 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015)

Table 5. Risk assessment of potential emissions and discharges from the Premises operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/ Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
Operation of a Category 61 liquid waste facility and Category 62 Solid Waste depot, Vehicle movements	Dust	Air/windborne pathway causing impacts to health and amenity	Closest residential property located approximately 470m to the east of the premises.	Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Condition 1,3,6,14 22, 23, 24, 26 and 27	N/A Dust emissions are also regulated under section 49 of the EP Act.
	Noise	Air/windborne pathway causing impacts to health and amenity	Closest residential property located approximately 470m to the east of the premises.	Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Condition 1,3, 22, 23, 24,26 and 27	N/A Noise emissions are also regulated under the <i>Environmental Protection (Noise) Regulations 1997</i> .
	Odour	Air/windborne pathway causing impacts to health and amenity	Closest residential property located approximately 470m to the east of the premises.	Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Condition 1,2,3 4,5,6,10,15,20,22,23, 24,26 and 27	N/A Odour emissions are also regulated under s49 of the EP Act.
	Liquid waste	Seepage of liquid waste to land from ponds resulting in infiltration to groundwater	Groundwater – 8mbgl	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	Condition 1, 2, 3, 4, 21,22,23,24,26 and 27	The Delegated Officer has reviewed the information regarding the risk of leachate migrating or seeping from the ponds and considers that current licence conditions which require: <ul style="list-style-type: none"> liquid waste disposal within the two ponds only; liquid wastes are stored and treated within containment structures that are lined to

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Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Source/ Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
								<p>achieve a permeability of 1×10^{-9} m/s; and</p> <ul style="list-style-type: none"> ponds to be sized to contain leachate and storm water produced as a result of a 1 in 100-year storm event <p>are sufficient to manage any issues relating to the storage of liquid waste.</p> <p>Discharges are also regulated under the Environmental Protection (<i>Unauthorised Discharges</i>) Regulations 2004.</p>
	Potentially contaminated stormwater	Overland flow and seepage to ground – causing impact to surrounding native ecosystem and groundwater quality.	Groundwater – 8mbgl	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	Condition 3, 4,5, 22,23,24,26 and 27	Discharges are regulated under the Environmental Protection (<i>Unauthorised Discharges</i>) Regulations 2004.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Table 6 provides a summary of the consultation undertaken by the department.

Table 6: Consultation

Consultation method	Comments received	Department response
Licence Holder was provided with draft amendment on 04/10/2024	No comments received	N/A

5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

5.1 Summary of amendments

Table 7 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Licence as part of the amendment process.

Table 7: Summary of licence amendments

Condition no.	Proposed amendments
N/A Prescribed Premises Category table	Inclusion of Category 62 to the table. 5000 tonnes production and design capacity. Category 61 production and design capacity changed from 200 tonnes to 400 tonnes Expiry date amended to 29 January 2029 as DWER considers there is not sufficient time to progress a full licence renewal, therefore the licence duration has been extended for 4 years to permit the assessment of a renewal at a later date.
Condition 1 Table 1	Table 1 waste acceptance table – quantity limit for septage waste (K210) and grease traps waste (K110) changed from 200 tonnes to 400 tonnes.
Condition 22	Standard licence condition added, revised to current licensing format – regarding recording of complaints.
Condition 23	Standard licence condition added, revised to current licensing format – regarding maintaining accurate and auditable books relating to the calculation of fees, works to be conducted, monitoring programmes and any complaints.
Condition 24	Standard licence condition added, revised to current licensing format – regarding books specified in condition 23.
Condition 26	Standard licence condition, revised to current licensing format – regarding carrying out compliance audit of the licence conditions.

Condition 27	Standard licence condition, revised to current licensing format – regarding providing annual reports biennially.
N/A Schedule 1: Maps	New premises map included (Figure 1).

Table 8: Consolidation of licence conditions in this amendment

Existing condition	Condition summary	Revised licence condition	Conversion notes
N/A	Expiry Date: 29 January 2014	Expiry Date: 29 January 2025	In accordance with the Notice of Amendment of Licence Expiry Dates (29/04/2016)
N/A	Prescribed Premises Category table	N/A	Category 62 added to the table
N/A	Contents and preamble	N/A	Redundant text. Revised to current licensing format.
1.1.1 1.1.2	Interpretation and definitions	N/A Interpretation section, Definitions and Table 6	Redundant condition. Revised to current licensing format.
1.1.3	Australian or other standard	N/A Interpretation section, Definitions and Table 6	Redundant condition. Revised to current licensing format.
1.2.2	Pollution control and monitoring equipment	N/A	Redundant condition. Adequately covered by alternative existing conditions. Deleted from licence.
1.2.3	Storage of environmentally hazardous materials	N/A	Redundant condition. Adequately regulated by the Dangerous Goods Safety Act 2004. Deleted from licence.
1.2.4	Recovery and removal of spills	N/A	Redundant condition. Adequately covered by EP (Unauthorised Discharges) Regulations 2004. Deleted from licence.
1.2.5	Prevention of contamination and containment of contaminated stormwater	N/A	Redundant condition. Adequately covered by alternative existing conditions and proposed new conditions. Deleted from licence.
Throughout	Condition wording updated to current template format: “shall” replaced with “must”, “Licensee” replaced with “Licence Holder” and “Director” replaced with CEO.		
1.3.1 Table 1.3.1	Waste acceptance	Condition 1 Table 1	Revised to current licensing format.
1.3.2	Waste acceptance criteria	Condition 2	New numbering

Existing condition	Condition summary	Revised licence condition	Conversion notes
1.3.3 Table 1.3.2	Waste processing	Condition 3 Table 2	New numbering
1.3.4 Table 1.3.3	Septage Waste	Condition 4 Table 3	New numbering
1.3.5	Managing landfilling activities	Condition 5	New numbering
1.3.6 Table 1.3.4	Cover requirements	Condition 6 Table 4	New numbering
1.3.10	Security measures	Condition 7	New numbering
1.3.11	Signage	Condition 8	New numbering
1.3.12	Windblown waste	Condition 9	New numbering
1.3.13	Vermin	Condition 10	New numbering
1.3.14	Unauthorised fire	Condition 11	New numbering
1.3.15	Reporting on unauthorised fires	Condition 12	New numbering
1.3.16	Provision of report	Condition 13	New numbering
2.1.1	Record and investigate exceedances of limits or targets	N/A	Redundant condition. Deleted from licence.
2.2 – 2.4	Point source emissions to air, surface water and groundwater No specified conditions	N/A	Deleted from licence.
2.5	Emissions to land	N/A	Redundant condition. Deleted from licence.
2.6.1	Fugitive emissions	14	New numbering
2.7.1	Odour emissions	15	New numbering
2.8.1	Noise emissions No specified conditions	N/A	Deleted from licence.
3.1.1	Collection and Preservation of water samples	Condition 16	New numbering
3.1.2	Monitoring requirement	Condition 17	New numbering
3.1.3	Calibration of monitoring equipment	Condition 18	New numbering

Existing condition	Condition summary	Revised licence condition	Conversion notes
3.1.4	Calibration report to be provided to the CEO	Condition 19	New numbering
3.6.1 Table 3.6.1	Monitoring of inputs	Condition 20 Table 5	New numbering
3.7	Process monitoring No specified conditions	N/A	Deleted from licence.
3.8.1 Table 3.8.1	Monitoring of groundwater quality	Condition 21 Table 6	New numbering
3.4	Meteorological monitoring No specified conditions	NA	Deleted from licence.
4	Improvements	NA Compliance has been met	<p>IR1 – Relates to Storing of environmentally hazardous materials which is a redundant condition. Adequately regulated by the Dangerous Goods Safety Act 2004 Removed from licence. Also, compliance report submitted on 27 January 2021 (DWERDT406289) shows that hazardous materials are now stored within a bunded enclosed area.</p> <p>IR2 - compliance report submitted on 27 January 2021 (DWERDT406289) shows that hazardous materials are now stored within a bunded enclosed area.</p> <p>IR3 – Compliance has been met. Report submitted in 2021 and resubmitted on 2/07/2024 (A2291712).</p> <p>IR4 – Compliance has been met. Refer to the prescribed premises Map in the licence and confirmation from the Shire (A2314444).</p>
5.1.1	Records	Conditions 22 and 23	New numbering. Condition wording revised to current standard condition wording.
NA	Records	Condition 24	Standard licence condition added to licence
5.1.2	Person in charge of premises	N/A	Redundant condition. Deleted from licence.
5.1.3	AACR	Condition 26	New numbering. Condition wording revised to current standard condition wording.

Existing condition	Condition summary	Revised licence condition	Conversion notes
5.1.4	Complaints	Condition 22	New numbering. Condition wording revised to current standard condition wording.
5.1.5	Implementing a recording system for different waste types accepted or rejected, landfill levy, landfill acceptance criteria and maintaining a register for Special wastes types	Condition 25	New numbering.
5.2.1 Table 5.2.1	Annual reporting requirements	Condition 27 Table 7	New numbering. Condition wording revised to current standard condition wording.
Schedule 1: Maps	Premises map	Schedule 1: Maps	Updated premises plan as provided by licence holder includes details of labelled key infrastructure and location of all monitoring bores
Schedule 2 Reporting & notifications	Annual Audit Compliance Report	N/A	Redundant attachment. Deleted from Licence Forms accessed at www.dwer.wa.gov.au

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.