



## Application for Licence Amendment

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

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Licence Number	L9073/2017/1
Licence Holder	Shire of Serpentine Jarrahdale
<b>File Number</b>	DER2017/001044
<b>Premises</b>	Watkins Road Transfer Station Reserve 23011  Lot 512 on Plan 53922  Watkins Road  Mundijong WA 6123
<b>Date of Report</b>	1 April 2021
<b>Proposed Decision</b>	Revised licence granted

**Stephen Checker**  
**MANAGER WASTE INDUSTRIES**

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

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# 1. Decision summary

Licence L9073/2017/1 is held by Shire of Serpentine Jarrahdale (Licence Holder) for the Watkins Road Transfer Station (the Premises), located at Reserve 23011 Mundijong.

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 L9073/2017/1 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 Application summary

On 3 February 2021, the Licence Holder submitted an application to the department to amend Licence L9073/2017/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Operation of transfer station on Sunday from 9am to 5pm

This amendment is limited only to changes to Category 62 activities from the Existing Licence. No changes to the aspects of the existing Licence relating to Category 13, 57 and 61A have been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

**Table 1: Proposed design or throughput capacity changes**

Category	Current design throughput capacity	Proposed design throughput capacity	Description of proposed amendment
62	16,000 tonnes per annual period	16,000 tonnes per annual period	No changes to design capacity throughput – just a change in operation times.

## 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 *Guidance Statement: Risk Assessments* (DER 2017).

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.

## 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 2 below. Table 2 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

**Table 2: Licence Holder controls**

<b>Emission</b>	<b>Sources</b>	<b>Potential pathways</b>	<b>Proposed controls</b>
<i>Dust</i>	<i>Crushing of C&amp;D material, Mulching Greenwaste and vehicle movements.</i>	<i>Air/windborne pathway</i>	<i>Misting systems/sprinklers on mobile crusher, stockpiles will be limited as crushing is only based on a campaign bases as required for a few days a year, onsite speed limited to due to size of premises, water cart retained onsite with 10,000 litre capacity, wetting down of roads when required.</i>
<i>Noise</i>	<i>Crushing and screening of material</i>	<i>Air/windborne pathway</i>	<i>All screening will be a campaign basis and it not expected to be longer than a few days a year.  The licence allows operation from 7am to 7pm Monday to Saturday but the licence holder only operates 7.30am to 6.30pm Thursday to Saturday.  Nosie Assessment has been conducted for operation including Sunday operation times of 9am to 5pm.  Operations on Sunday will only include the front-end loader – there will be no Screening or skip bins etc.</i>
<i>Asbestos fibre</i>	<i>C&amp;D Waste / Household waste</i>	<i>Air/windborne pathway</i>	<i>All household waste will be stored within skip bins or cages for a short duration prior to removal off premises.  C&amp;D waste stored in small stockpiles.  Applicant will not accept asbestos. The Applicant will inspect all concrete rubble for asbestos fibres prior to acceptance to the Premises as the concrete will be Shire material; no other concrete rubble material will be accepted.</i>
<i>Fire</i>	<i>Tyres, Greenwaste and household waste</i>	<i>Air/windborne pathway</i>	<i>No more than 250 tyres stored on the premise at any time.  Greenwaste stockpiles small, campaign bases twice annually, buffer distance from other waste types.  Household waste stored in skip bins and cages prior to removal off premises.</i>

<b>Emission</b>	<b>Sources</b>	<b>Potential pathways</b>	<b>Proposed controls</b>
			<i>Water Cart with a tank capacity of 10,000 litres employed on site.</i>
<i>Odour</i>	<i>Household waste</i>	<i>Air/windborne pathway</i>	<i>Waste only stored on premises for a short time prior to removal off premises.</i>
<i>Leachate</i>	<i>Storage of Green waste / Household waste / C&amp;D waste / Drainage waste / Tyres</i>	<i>Seepage to soil and groundwater</i>	<p><i>Hardstand areas for Household waste constructed to meet not less than <math>1 \times 10^{-9}</math> m/s permeability (concrete) with use of skips bins and cages.</i></p> <p><i>Greenwaste volumes are small and will be collected by the Applicant and stored shortly prior to mulching. Expecting two campaign per annual period.</i></p> <p><i>Tyres, C&amp;D and Drainage waste (soils and silts) is inert and therefore doesn't generate leachate.</i></p>
<i>Contaminated Stormwater</i>	<i>Greenwaste / Drainage waste / Household waste</i>	<i>Direct discharge from overland flow / seepage to soil and groundwater</i>	<p><i>Household waste is on hardstand pads and stored in skips bins or cages with uncontaminated stormwater diverted away.</i></p> <p><i>Drainage waste material is inert as it will comprise soils and silts which originated from the natural soils surrounding the existing Shire drainage infrastructure. Prior to excavating the drainage waste material the drains will be inspected and cleaned of contaminated material such as glass, aluminium cans and plastics etc.</i></p> <p><i>Tyres and Concrete C&amp;D waste is inert and does not decompose quickly so it does not generate any contaminated runoff. Any sediment runoff around the concrete stockpiles will be generated from in-situ existing soils. Crushing campaign expected a few days per year.</i></p>

### 3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), 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 3 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 (*Guidance Statement: Environmental Siting* (DER 2016)).

**Table 3: Sensitive human and environmental receptors and distance from prescribed activity**

<b>Human receptors</b>	<b>Distance from prescribed activity</b>
<i>Closest residential receptor</i>	280 m south 320 m south east
<b>Environmental receptors</b>	<b>Distance from prescribed activity</b>
<i>Contaminated Sites</i>	<i>Premises are classified as 'Potential contaminated-investigation required'. Land 400m north is classified as 'Incomplete Report' Land 600m north east is classified as 'Awaiting classification'</i>
<i>Bush Forever: Regional open space or proposed regional open space</i>	<i>Premises lies within Bush Forever Site</i>
<i>Threatened Flora</i>	<i>Area for possible Threatened Flora Located 170m south west</i>
<i>Threatened Fauna</i>	<i>Area for possible endangered bird fauna located 130m north east, 280m east, 330m north</i>
<i>Ephemeral water course</i>	<i>710m north east and 600m south</i>
<i>Groundwater</i>	<i>Depth to groundwater encountered at approximately 15m (based on available GIS dataset –WIN Groundwater Sites at a site 370m south east).</i>

### 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) 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 in-complete 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 4.

The Revised Licence L9073/2017/1 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Waste transfer station activities.

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

**Table 4. Risk assessment of potential emissions and discharges from the Premises during operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
<i>Operation</i>								
Unloading and loading of waste and vehicle movements	Noise	Air/windborne pathway causing impacts to health and amenity	Residences 280m south and 320m south east	Refer to Section 3.1	C = Minor L = Unlikely <b>Medium Risk</b>	Y	<b><u>Condition 17</u></b>	Noise assessment indicates no compliance issues with Environmental Protection (Noise) Regulations 1997. Existing Condition 17 will be amended to allow Sunday operations.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

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

### 3.3 Detailed risk assessment for Noise

#### 3.3.1 Description of Noise emissions

The Applicant has provided a Noise Assessment as part of the Application which assess noise emissions for operations at the Premises.

Noise emissions will occur during operations when vehicles transit the premises; both entry and exit movements, waste materials are unloaded and loaded for processing or removal off-site including at all storage hardstand pads and when screening activities occurs at the premises.

The licence allows operation from 7am to 7pm Monday to Saturday but the licence holder only operates 7.30am to 6.30pm Thursday to Saturday.

Operations on Sunday will be from 9am to 5pm and only include the operation of the front-end loader – there will be no Screening or skip bins etc.

#### 3.3.2 Identification and general characterisation of emissions

Noise emissions will occur during operations when vehicles transit the premises; both entry and exit movements, waste materials are unloaded and loaded for processing or removal off-site including at all storage hardstand pads and when screening activities occurs at the premises.

The licence allows operation from 7am to 7pm Monday to Saturday but the licence holder only operates 7.30am to 6.30pm Thursday to Saturday.

Operations on Sunday will be from 9am to 5pm and only include the operation of the front-end loader – there will be no Screening or skip bins etc.

#### 3.3.3 Description of potential adverse impact from the emission

Noise emissions potential pathway is air or wind dispersal. Prevailing winds are east in the mornings (9am), and south west in the afternoon (3pm).

Potential impacts from noise emissions include degradation of local comfort and amenity at the neighbouring premises 280m south and 320m south east.

#### 3.3.4 Criteria for assessment

*Environmental Protection Noise Regulations 1997* (EP Noise Regs) stipulate how noise is regulated for operations; specifically, regulation 7 and 8 for operations.

#### 3.3.5 Applicant controls

The Applicant has submitted a Noise Assessment for operations at the premises.

This assessment has reviewed the controls set out in Table 5 below.

**Table 5: Applicant's proposed controls for Noise**

Controls for Noise	
Control	Description
Hours of operation	The licence allows operation from 7am to 7pm Monday to Saturday but the licence holder only operates 7.30am to 6.30pm Thursday to Saturday.  Operations on Sunday will be from 9am to 5pm and only include the operation of the front-end loader – there will be no Screening or skip bins etc.



Infrastructure	All screening will be a campaign basis and it not expected to be longer than a few days a year.
Method of operation	Speed limited due to size of premises

### 3.3.6 Key findings

**The Delegated Officer has reviewed the information regarding Noise emissions and has found:**

1. A Noise Assessment has been undertaken for proposed operations.
2. The Noise Assessment indicates all operational activities at the Premises will comply with the EP Noise Regulations, at all times.
3. The licence allows operation from 7am to 7pm Monday to Saturday but the licence holder only operates 7.30am to 6.30pm Thursday to Saturday.
4. Operations on Sunday will be from 9am to 5pm and only include the operation of the front-end loader – there will be no Screening or skip bins etc.
5. The Delegated Officer considers that the findings of the Noise Assessment are reasonable, but notes that the Licence Holder is still required to comply with the EP Noise Regs which provide a high degree of regulation and protection in the event that noise impacts occur.

### 3.3.7 Consequence

If noise occurs, then the Delegated Officer has determined that the impact of noise emissions will be low level impact to amenity with Specific Consequence Criteria are likely to be met. Therefore, the Delegated Officer considers the consequence of noise emissions to be **Minor**.

### 3.3.8 Likelihood of Risk Event

The Delegated Officer has determined that the likelihood of noise emissions occurring will probably not occur in most circumstances. Therefore, the Delegated Officer considers the likelihood of noise emissions to be **Unlikely**.

### 3.3.9 Overall rating of Noise

The Delegated Officer has compared the consequence and likelihood ratings described above with the risk rating matrix (Table 4) and determined that the overall rating for the risk of noise emissions is **Medium**. It is noted that the Licence Holder is still required to comply with the EP Noise Regs which provide a high degree of regulation and protection in the event that noise impacts occur.

## 4. Consultation

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

**Table 6: Consultation**

Consultation method	Comments received	Department response
<i>Licence Holder was provided with draft amendment on (29/03/2021)</i>	<i>Licence Holder responded 29/03/2021 to waive the consultation period and request the Licence be issued as soon as possible</i>	<i>Noted</i>

## 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
17	Allow operations on Sunday from 9am to 5pm.

## References

1. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
2. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
3. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. DWER, June 2019. *Guideline: Industry Regulation Guide to Licensing*. Department of Water and Environmental Regulation, Perth.
5. DWER, June 2019. *Guideline: Decision Making*. Department of Water and Environmental Regulation, Perth.
6. DWER, June 2019. *Guideline: Odour emissions*. Department of Water and Environmental Regulation, Perth.

## Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)				
Application type				
Works approval	<input type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Date Report received:		
Renewal	<input type="checkbox"/>	Current licence number:		
Amendment to works approval	<input type="checkbox"/>	Current works approval number:		
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L9073/2017/1	
		Relevant works approval number:	N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:	None	<input type="checkbox"/>
Date application received	3/02/2021			
Applicant and Premises details				
Applicant name/s (full legal name/s)	Shire of Serpentine Jarrahdale			
Premises name	Watkins Road Transfer Station			
Premises location	Reserve 23011			
Local Government Authority	Shire of Serpentine Jarrahdale			
Application documents				
HPCM file reference number:	DER2017/0001044			
Key application documents (additional to application form):	Application Form Nosie assessment			
Scope of application/assessment				
Summary of proposed activities or changes to existing operations.	Licence amendment Operation of Transfer station Amendment to allow operations on Sunday 9am to 5pm			

Category number/s (activities that cause the premises to become prescribed premises)

Table 1: Prescribed premises categories

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 13: Crushing of building material: premises on which waste building or demolition material (for example, bricks, stones or concrete) is crushed or cleaned	5,000 tonnes per annual period	None
Category 57: Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored	Not greater than 250 tyres at any one time	None
Category 61A: Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land	1,400 tonnes per annual period	None
Category 62: Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	16,000 tonnes per annual period	None

**Legislative context and other approvals**

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	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"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Approval: Expiry date: If N/A explain why?

Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: Proclaimed Groundwater Area/Surface Water Area Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Regional office: Swan Avon / Mid-West Gascoyne / Kwinana Peel / North West / South West / Goldfields / South Coast
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: P1 / P2 / P3 / N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <u>WQPN 25</u> )? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Note: If the proposed activity is not listed as a compatible land use with the PDWSA please consult with the relevant regional office (Regulatory Services - Water) and Water Source Protection (Science and Planning).
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i> )	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>If Yes include details here.</p> <p>Classification: N/A / possibly contaminated – investigation required (PC–IR) / not contaminated – unrestricted use (NC–UU) / contaminated – restricted use (C–RU) / remediated for restricted use (RRU) / contaminated – remediation required (C–RR) / decontaminated (Decon)</p> <p>Date of classification: N/A</p>
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