

Application for Licence Amendment

Part V Division 3 of the Environmental Protection Act 1986

Licence Number	L6958/1997/12
Licence Holder	City of Canning
File Number	2013/000045-2
Premises	Ranford Road Waste Transfer Station 81 Ranford Road; 330 and 350 Bannister Road; 76 Clifton Road;
	CANNING VALE WA 6155
	Legal description – Lot 76 on Plan 2903 Lot 77 on Plan 2903 Lot 78 on Plan 2903 Lot 300 on Plan 30748 Lot 301 on Plan 30748 Lot 302 on Plan 30748 Lot 500 on Plan 15262 As defined by the Premises map and the coordinates in Schedule 1 of the Revised Licence
Date of Report	26 March 2024
Decision	Revised licence granted

Grace Heydon A/MANAGER WASTE INDUSTRIES _ REGULATORY SERVICES an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Table of Contents

1.	Decis	ecision summary1				
2.	Scop	e of assessment	1			
	2.1	Regulatory framework	1			
	2.2	Application summary	1			
3.	Risk	assessment	2			
	3.1	Source-pathways and receptors	2			
		3.1.1 Emissions and controls	2			
		3.1.2 Receptors	4			
	3.2	Risk ratings	5			
4.	Cons	sultation	8			
5.	Conc	clusion	8			
	5.1	Summary of amendments	8			
Refe	erence	es	9			
		1: Summary of Licence Holder's comments on risk assessment and litions	10			
Арр	endix	2: Application validation summary	11			

1. Decision summary

Licence L6958/1997/12 (L6958) is held by the City of Canning (Licence Holder) for the Ranford Road Waste Transfer Station (the Premises), located at 81 Ranford Road, 330 and 350 Bannister Road and Lot 76 Clifton Road.

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 L6958 has been granted.

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 18 September 2023, the Licence Holder submitted an application to the department to amend L6958 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act).

The Premises contains an existing transfer station which receives waste from residents of the City of Canning (the City), light Commercial customers and some waste generated by the City itself. Wastes accepted are Clean Fill, Inert Waste Type 1, Inert Waste Type 2 (tyres and plastics), Special Waste Type 1 (asbestos products), Putrescible waste (Green Waste and household furnishings only) and Hazardous Waste (waste oil, paint, vehicle batteries, and e-waste).

The operational area includes:

- surfaced access roads;
- a fully enclosed shed where waste other than green waste is dropped off and sorted and collected by trucks for removal for off-site processing or disposal. Waste generally remains in the shed for less than 24 hours before being removed from the premises;
- a bunded, enclosed household hazardous waste collection depot;
- a vehicle wash down bay;
- outdoor storage bays for inert materials used for council works; and
- a green waste and shredded/mulched green waste storage area surfaced with crushed road base.

The following amendments to the Premises are being sought:

- To amend the acceptance specification relating to putrescible waste to allow acceptance
 of Municipal Solid Waste (MSW) Putrescible waste from red lid bins servicing
 residential premises and commercial premises. This is a new waste type acceptance,
 storage and processing at the Premises and will constitute putrescible waste collected
 from the new red lid bins that the City is rolling out.
- The current Licence Production and Design Capacity (P&DC) of 40,000 tonnes of waste per annum is not proposed to change but would now include 10,000 tonnes of MSW putrescible waste.

This putrescible waste will be tipped directly onto the bottom floor of the existing enclosed shed, scrapped directly into walking floor semi-trailers and transported immediately (within 17 hours of acceptance) to landfill / waste to energy facility. The City does not intend to increase the volume of waste accepted at the premises and does not propose to construct additional infrastructure. The putrescible waste will only remain at the transfer station for a short period of time minimising the risk of emissions.

it is intended that Hazelmere Resource Recovery Park continues as the primary disposal location for residential MSW collected in Canning so the City will continue current practices of transporting MSW collected from residential general waste bins directly to an offsite landfill. The Premises transfer station will be used as a secondary aggregation site in case of mechanical breakdown, personnel shortages, unforeseen issues at primary disposal site (e.g., fire) for example.

This amendment is limited only to changes to Category 62 activities from the Existing Licence.

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

 Table 1: Proposed design or capacity changes

Category	Current design capacity	Proposed design capacity	Description of proposed amendment
62	40,000 tonnes per year	40,000 tonnes per year	No changes proposed

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.

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.

Emission	Sources	Potential pathways	Proposed controls
Odour	Storage of waste materials prior to removal off-site.	Air/windborne pathway	 Operating hours of the waste transfer station are 8.00am to 4.30pm, 7 days a week. Storage is inside a dedicated fully enclosed shed. The applicant has noted that putrescible waste activities will occur within an enclosed shed in which the doors cannot be closed. The tipping of MSW will occur in the centre of the shed, away from the entry / exit doors and MSW

Table 2: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
			loads will be immediately transferred into the walking floor trailers within the fully contained pit.
			Premises is a Transfer Station, so no waste is buried at the Premises.
			Odour screening analysis conducted in accordance with DWER Guideline: Odour Emissions (2019) (Guideline).
			Siting – sensitive receptor buffer distance greater than Appendix 2 Guideline distance of 200m.
			Transfer station will be used as a secondary aggregation site for putrescible waste.
			Waste is accepted via trucks travelling on public roads.
			All waste loads accepted at the site will be contained within an enclosed truck.
			The design capacity of the tipping floor only allows for 90m ³ volume of waste to be handled at any one time which will further reduce the potential for odour emissions.
			Active tipping area is limited to an area no greater than 1300m ² which limits the potential for odour emissions, due to the small volume of waste handled at any one time.
			Putrescible waste will be within the tipping shed for no longer than a 17-hour period and removed from site each day.
			Tipping floor liquid waste from the waste loads will be managed via absorptive material spread onto the tipping floor after transfer of the load into the semi-trailers, for disposal off site. This absorptive material (such as sand) will also be removed from site, as part of the waste load.
			The tipping floor can be washed as required and will be managed daily.
			Odour levels will be continuously monitored by staff and action taken, if required.
			Complaints register – existing licence condition.
Leachate	Storage of putrescible waste materials prior to removal from site.	Seepage to land or contamination of stormwater	Tipping floor liquid waste from the waste loads will be managed via absorptive material spread onto the tipping floor after transfer of the load into the semi-trailers, for disposal off site. This absorptive material (such as sand) will also be removed from site, as part of the waste load.
			This process will minimise any water that may be required as part of washing the tipping floor.
			Any liquid water used in washing will be directed to existing floor drains, that flow to a clay lined basin

Emission	Sources	Potential pathways	Proposed controls
			outside of the tipping shed.
			The tipping floor can be washed as required and will be managed daily.
			Any wash water will flow to a discharge point, adjacent to the tipping floor.
			It is not envisaged that the basin area that receives this wash water will result in a permanent waterbody. The City intends to pump this basin out regularly, as required utilizing a licensed controlled waste contractor. The basin area is large enough to manage the small volumes of liquid wastewater that may be generated.
			Size of clay-lined and infiltrative basin areas are approximately 330m ² and 283m ² respectively.
			Stormwater Management Plan 2024 that:
			 Manages putrescible waste being transported to, unloaded at, stored at, consolidated at and loaded for offsite transport in alignment with relevant Australian legislations and regulations;
			 To ensure that all current areas of potential contamination of stormwater are clearly identified and noted within this plan;
			 Outline the controls proposed to capture and manage the leachate generated within the transfer station from the acceptance of putrescible waste (MSW);
			 Prevents contamination of waters entering the stormwater system; and
			 Develop a training program for key personnel.
Fire/smoke	Fire within stored waste materials	Air/windborne pathway	Emergency Response Plan 2023 consistent with Australian Standard AS3745.
	materiais		Siting.
			Small volumes of putrescible waste.
			Putrescible waste will be within the tipping shed for no longer than a 17-hour period and removed from site each day.
			Operating hours of the waste transfer station are 8.00am to 4.30pm, 7 days a week.

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 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 (Guideline: Environmental siting (DWER 2020)).

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

Human receptors	Distance from prescribed activity
Residential premises	340m east from Enclosed Tipping Shed
Environmental receptors	Distance from prescribed activity
Public Drinking Water Source Areas (PDWSA)	Priority 1 protection zone within the Jandakot Underground Water Pollution Control Area 200 m from premises boundary Priority 2 protection zone within the Jandakot Underground Water Pollution Control Area 800 m from premises boundary
Groundwater areas declared under the Rights in Water and Irrigation Act 1914	Within the Jandakot Groundwater Area Within the Perth Groundwater Area
Geomorphic wetlands of the Swan Coastal Plain	Damplands located within the premises boundary, to the east and to the west. Unnamed wetlands of conservation significance located adjacent to the premises boundary to the west.
Threatened Ecological Communities (TEC)	Priority 3 listed Banksia Dominated Woodlands of the Swan Coastal Plain located within the premises boundary, adjacent to the premises boundary and multiple pockets within a 1 km radius of the premises boundary
Threatened and Priority Flora	One threatened flora <i>Caladenia huegelii</i> and one Priority 4 rare or near threatened flora <i>Tripterococcus</i> sp. <i>Brachylobus</i> have been located within 1 km of the premises boundary.
Threatened and Priority Fauna	Two endangered bird species, one vulnerable bird species, one reptile species listed as Priority 3 poorly- known species and one mammal species listed as Priority 4 rare or near threatened have been located within 1 km of the premises boundary.
Bush Forever	Site 388 located within the premises boundary and adjacent to the premises boundary to the south west. Site 245 adjacent to the premises boundary to the west.

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 4.

The Revised Licence L6958 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Solid waste depot.

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 ¹	Risk rating ¹ Licence				
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
Operation								
	Odour	Air/windborne pathway causing impacts to health and amenity	Residences NE to SE – approx 350 m from recycling shed		C = Minor L = Unlikely Medium Risk	Y	Existing Condition 1, 2, 3, 6, 12, 15, 21, 22, 23, 24 and 25. <u>Condition 2</u> <u>Table 2 and Condition 6</u> <u>Table 3</u> <u>amended</u>	This application refers to MSW waste from Red Lid Bins – so the greenwaste component is not related to the Greenwaste that is mulched/shredded and not processed with the fully enclosed shed. The applicant has noted that putrescible waste activities will occur within an enclosed shed in which the doors cannot be closed. The tipping of MSW will occur in the centre of the shed, away from the entry / exit doors and MSW loads will be immediately transferred into the walking floor trailers within the fully contained pit. An additional row in Condition 6 Table 3 to separate these waste types.
Waste receival and transfer off- premises.	Leachate	Seepage to land or contamination of stormwater causing impacts to land and groundwater	PDWSA Underlying groundwater areas Bush forever sites, TEC and Geomorphic wetlands within and surrounding the premises	Refer to Section 3.1	C = Minor L = Unlikely Medium Risk	Y	Existing condition 1, 2, 3, 4, 5, 6, 18 and 25.	N/A
	Fire / smoke	Air/windborne pathway causing impacts to health and amenity	Residences NE to SE – approx 350 m from recycling shed		C = Minor L = Unlikely Medium Risk	Y	Existing condition 9, 12, 21 and 25.	N/A

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.

Licence: L6958/1997/12

4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

Table 5: Consultation

Consultation method	Comments received	Department response
Licence Holder was provided with draft amendment on 22 February 2024	Licence Holder submitted comments on 12 March 2024. Refer to Appendix 1.	Refer to Appendix 1.

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 6 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.

Condition no.	Proposed amendments
Condition 1 Table 1	Amend Condition 1 Table 1 to update floor infrastructure requirements to specify concrete construction
Condition 2 Table 2	Amend Condition 2 Table 2 Putrescible waste to include MSW as this waste will be a separate new waste stream to regular Greenwaste and household furnishing which is currently processed within the fully enclosed Recycling Shed. Acceptance of MSW has been limited to 10,000 tonnes per annum.
Condition 6 Table 3	An additional row required in Condition 6 Table 3 to separate mulched/shredded Greenwaste from the MSW putrescible waste received into the Recycling Shed. The MSW putrescible waste is only processed within the Recycling Shed as opposed to Greenwaste which is shredded and mulched at another outside location. Applicant controls around storage time and leachate management have also been included.
Definitions Table 8	Definition of MSW provided to separate this putrescible waste stream from Greenwaste and household furnishings that is currently accepted and processed within the Fully Enclosed Shed.

Table 6: Summary of licence amendments

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.

Appendix 1: Summary of Licence Holder's comments on risk assessment and draft conditions

Condition	Summary of Licence Holder's comment	Department's response
Condition 1 Table 1	Agree to proceed	Noted
Condition 2 Table 2	Agree to proceed	Noted
Condition 6 Table 3	Agree to proceed	Noted
Condition 6 Table 3	Requirements to close doors have been included at the shed is noted as fully enclosed as a primary odour control. Notice to Amend: Justification: The requirement to have the shed doors closed whilst tipping MSW will not be possible during operating hours. Closing the Shed would impede vehicle movement thought the customer drop-off area and have significant restriction to site operations. The shed is contained and tipping occurs away from entry and exit points. Recommended Change: Tipping of MSW will occur in the centre of the shed, away from entry and exit points. MSW loads will be immediately transferred into the walking floor trailers within the fully contained pit.	Noted. The Delegated Officer has reviewed the Detailed Odour Analysis submitted by the Licence Holder in support of the application and considers that this change in operational procedures does not impact the outcome of the analysis. Amend wording in Table 2 Licence Holder Controls of the Decision Report to reflect the Recommended Change. Requirement to close doors deleted from the Licence. Should odour become a concern at the Premises during operations, the Delegated Officer can review odour controls on the licence and implement a higher degree of regulatory control if required. This could include a condition requiring the shed doors be closed.
Definitions Table 8	Agree to proceed	Noted

Licence: L6958/1997/12

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMM	ARY (a	s updated from vali	dation checklist)			
Application type						
Amendment to licence	X	Current licence number:	L6958/1997/12			
		Relevant works approval number:		N/A		
Date application received		18 September 2023				
Applicant and Premises details						
Applicant name/s (full legal name/s)		City of Canning				
Premises name		Ranford Road Waste Transfer Station				
Premises location		Lot 9006, Part Lot 9005, Lot 9004, Part Lot 9002 Part Lot 9001 Lot 300, and Lot 76 Johnston Road, Canning Vale WA 6155				
Local Government Authority		City of Canning				
Application documents						
HPCM file reference number:		2013/000045-2				
Key application documents (additional to application form):		Application Form Odour analysis Stormwater Management Plan Emergency Management Plan Premises map				
Scope of application/assessment						
Summary of proposed activities or changes to existing operations.		 Licence amendment To amend the acceptance specification relating to putrescible waste on the licence to allow acceptance of Municipal Solid Waste (MSW) from red lid bins and commercial premises. This putrescible waste will be tipped directly onto the bottom floor of the existing enclosed shed, scrapped directly into walking floor semitrailers and transported immediately to landfill / waste to energy facility. It is anticipated that an additional 10,000 tonnes of MSW putrescible waste would be received annually. 			acceptance of bins and iste will be existing king floor semi- idfill / waste to onnes of MSW	

Prescribed premises category and description	Asse capa	essed production or design city		Proposed changes to the production or design capacity (amendments only)	
 Category 62: Solid waste depot: premises on which waste is stored or sorted pending final disposal or re-use, other than in the course of operating – (a) a refund point (as defined in the Waste Avoidance and Resource Recovery Act 2007 section 47C(1)) (a refund point); or (b) a facility or other place (an aggregation point) for the aggregation of containers that have been returned to refund points until those containers are accepted for processing or disposal. 	40,0	000 tonnes per annual period		No Changes	
egislative context and other approv	als	Γ			
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 🗆 No 🖂	N	Referral decision No: Managed under Part V □ Assessed under Part IV □	
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?		Yes 🗆 No 🖂		Ministerial statement No: EPA Report No:	
Has the proposal been referred and/or assessed under the EPBC Act?		Yes 🗆 No 🖂	R	Reference No:	
Has the applicant demonstrated occupancy (proof of occupier status)?		Yes 🛛 No 🗆	G	Certificate of title General lease Expiry: Mining lease / tenement Expiry: Other evidence Expiry:	
Has the applicant obtained all relevant planning approvals?		Yes □ No □ N/A ⊠	E	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 🗆 No 🖂	_	CPS No: N/A lo clearing is proposed.	
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?		Yes 🗆 No 🖂		application reference No: N/A icence/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 🗆 No 🖂	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 □ No ⊠	Name: N/A Type: Proclaimed Groundwater Area/Surface Water Area Has Regulatory Services (Water) been consulted? Yes I No I N/A I 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 □ No ⊠	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 I No I N/A I 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</i> <i>Goods Safety Act 2004, Environmental</i> <i>Protection (Controlled Waste)</i> <i>Regulations 2004, State Agreement Act</i> <i>xxxx</i>)	Yes □ No ⊠	If Yes include details here.
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes □ No ⊠	If Yes include details of which EPP(s) here.
Is the Premises subject to any EPP requirements?	Yes □ No ⊠	If Yes, include details here, e.g. Site is subject to SO ₂ requirements of Kwinana EPP.
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes 🗆 No 🗆	Site ID 34779, 36127,36128,36129, 36131, 36827, 36828, 36831, 36832, 36833, Possibly contaminated investigation required