



Application for Works Approval

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

Works Approval Number W6380/2020/1

Applicant City of Cockburn

File Number DER2018/001042-2~82

Premises Cockburn Community Recycling Centre
Dalison Avenue
WATTLEUP WA 6166

Legal description
Lot 235 on Deposited Plan 226117
and Lot 2 on Plan D107998

As defined by the Premises maps attached to the issued
works approval

Date of Report 15 September 2020

Proposed Decision Works approval granted

Tracey Hassell
A/MANAGER WASTE INDUSTRIES
INDUSTRY REGULATION

An officer delegated by the CEO under section 20 of the EP Act

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1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the Premises. As a result of this assessment, Works Approval W6380/2020/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

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

2.2 Application summary

On 12 December 2019, the City of Cockburn (the Applicant) submitted an application for a Works Approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The application is to undertake construction works relating to a new Community Recycling Centre (CRC – the Premises) within the existing Henderson Waste Recovery Park (HWRP) (L9159/2018/1) which will replace the current CRC located on capped landfill cells in the northern section of the HWRP. The Premises is approximately 3.7 km west of residences in the suburb of Hammond Park.

The Premises relates to the category and assessed design capacity under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in Works Approval W6380. The infrastructure and equipment relating to the premises category and any associated activities which the department has considered in line with *Guidance Statement: Risk Assessments* (DER 2017) are outlined in Works Approval W6380.

2.3 Overview of Premises

The Applicant has operated the HWRP since 1990 with the site consisting of an inert landfill, a putrescible landfill, a domestic transfer station, green waste mulching area, a household hazardous waste storage shred, leachate ponds and a landfill gas power generation plant. The proposed CRC will be relocated in the southern portion of the HWRP and will provide a range of services for members of the public to deliver waste materials for treatments including reuse, recycling and disposal. The Premises will consist of a community drop off area, a reuse shop, a community education centre and an administration office.

Waste acceptance and waste storage specifications for CRC infrastructure at the Premises proposed by the Applicant are detailed in Table 1 below.

Table 1: Proposed accepted waste types and storage specifications

Waste Type	Storage infrastructure
Residual Mixed Refuse	12 m ³ hook lift bin
Cardboard & Paper	30 m ³ hook lift bin
Glass	10 m ³ bin with lid
E-waste	TechCollect Cages

Waste Type	Storage infrastructure
Waste/Motor Oil	2,000L Bunded Oil disposal container
Gas Bottles	Toxfree Cages
Tyres	20 m ³ hook lift bin
Fluorescent Tubes	Toxfree Disposal Units
Aluminium/Steel Cans	3 m ³ skip bins
Beds & Mattresses	20 m ³ hook lift bin
Fire Extinguishers	Toxfree cages
Car Batteries	Self bunded pallets
Green Waste	Stockpiled on a concrete hardstand
Mixed C&D	Stockpiled on a concrete hardstand
Scrap Metal	20 m ³ hook lift bin
White goods	20 m ³ hook lift bin

2.4 Native Vegetation Clearing

On 16 December 2019 the Applicant submitted an application for a Native Vegetation Clearing permit to clear 0.008 hectares of scattered native vegetation to facilitate the construction of the CRC. The Applicant was sent an agreement in principle for Clearing Permit CPS8766/1 on 28 May 2020 to finalise items of outstanding information. Pending the submission of this information, the Clearing Permit is likely to be granted once this works approval application is granted. No assessment of native vegetation clearing as been undertaken as a part of this application.

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 construction and operation, which have been considered in this Decision Report are detailed in Table 2 below. Table 2 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 2: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Vehicle movements on unsealed surfaces, minor excavation works	Air/windborne pathway	On site water cart will be used to maintain construction areas in a damp state. Vehicles will be restricted to a maximum speed of 10 km/hr. All loads of material will be covered during transport.
Noise	Vehicle movement, operation of machinery, placement of site infrastructure		All trucks and mobile equipment to be fitted with broadband noise reversing alarms to minimise the impact of vehicle reversing noise. Waste acceptance and the operation of equipment and machinery will be restricted to the operational hours of Monday – Sunday 8:00am to 4:30pm. Vehicles will be restricted to a maximum speed of 10 km/hr. Materials will be unloaded slowly from the lowest possible height. All equipment and machinery will be maintained in good working order.
Operation			
Dust	Vehicle movements, transport, unloading and stockpiling of waste materials	Air/windborne pathway	On site water cart will be used to maintain operational areas in a damp state. Vehicles will be restricted to a maximum speed of 10 km/hr. All loads of material will be covered during transport. All operational areas will be sealed with concrete hardstand and the integrity maintained.

Emission	Sources	Potential pathways	Proposed controls
Noise	Vehicle movements, waste receptacle movements, unloading and stockpiling of waste materials		<p>All trucks and mobile equipment to be fitted with broadband noise reversing alarms to minimise the impact of vehicle reversing noise.</p> <p>Waste acceptance and the operation of equipment and machinery will be restricted to the operational hours of Monday – Sunday 8:00am to 4:30pm (excluding reuse shop) and Friday, Saturday and Sunday 8:00am to 4:00pm (reuse shop).</p> <p>Vehicles will be restricted to a maximum speed of 10 km/hr.</p> <p>Materials will be unloaded slowly from the lowest possible height.</p> <p>All equipment and machinery will be maintained in good working order.</p>
Odour	Acceptance and storage of putrescible and odour generating wastes		<p>All receptacles holding waste likely to generate odour will be inspected regularly, with any odorous material removed to the CRRP landfill cells for disposal by no later than the end of the working day.</p> <p>Greenwaste stockpiles will be removed from the Multi-Tier drop off facility by the end of each working day to a processing facility located in the Licenced portion of the CRRP.</p> <p>A complaints register will be maintained by the Applicant.</p>
Leachate	Acceptance and storage of putrescible and leachate generating wastes	Leachate with the potential to contaminate stormwater and subsequently groundwater through infiltration	<p>Majority of accepted wastes stored under cover within hook lift bins, cages or banded areas with the capacity to contain leachate, located on concrete hardstand.</p> <p>Tyres and mattresses will be stored within 20m³ bins located on concrete hardstand.</p> <p>White goods and large steel will be inspected on acceptance to the site to ensure they contain no residual environmentally hazardous material.</p> <p>White goods and large steel will be located under cover to prevent contamination of stormwater.</p>

Emission	Sources	Potential pathways	Proposed controls
Potentially contaminated stormwater	Leachate and spills of environmentally hazardous material	Stormwater runoff with potential to infiltrate groundwater	<p>Wastes are stored in undercover areas, on hardstand and in receptacles, so that any leachate or spills do not have the capacity to contaminate stormwater.</p> <p>Uncontaminated stormwater will be diverted away from waste storage areas and released in a controlled manner to the surface water collection pond utilising stormwater management drainage.</p> <p>Spills of environmentally hazardous material will be immediately removed using spill kits located at the site.</p>
Fire	Release of environmentally hazardous compounds to air or land through the burning of tyres or other flammable wastes	<p>Air/windborne pathway</p> <p>Environmentally hazardous compounds with potential to contaminate stormwater</p>	<p>Maximum of 100 tyres will be stored on site at any given time.</p> <p>Tyres will be stored in 20m³ bins on concrete hardstand until they are removed from site.</p> <p>A water cart and small trailer mounted firefighting units are located on site.</p> <p>Water used to extinguish a fire within the storage bins will be contained within the bins and deposited in the leachate ponds located within the HWRP for disposal.</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 Applicant'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 and Figure 1 provide 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

Human receptors	Distance from prescribed activity
Rural residential premises	Multiple rural residential premises located within 300 m radius of Premises boundary
Commercial premises	<p>310 m south east of Premises</p> <p>250 m north west of Premises</p>

Environmental receptors	Distance from prescribed activity
Groundwater	Superficial aquifer from 5 metres below ground level (mbgl) Leederville aquifer from 100 mbgl Yarragadee-North aquifer from 500 mbgl
RIWI Act Groundwater Area	The Premises is within the Cockburn Groundwater Area (Proclaimed status)
Beneficial users of groundwater	Industry, irrigation for public space, garden bores Approximately 110 Groundwater Licence (GWL) monitoring wells and private use bores located within a 2 km radius of the premises with abstraction predominately from the Superficial and Leederville. Aquifers.
Public Drinking Water Source Areas – Jandakot Underground Water Pollution Control Area (P1, P2 & P3 priority protection areas)	Approximately 5000 m east of premises boundary
Bushforever – Beeliar Regional Park (Brownman Swamp, Anderson Swamp and Mount Brown Lake)	580 m west of premises boundary
Priority 3 Threatened Ecological Community buffers – Northern Spearwood Shrublands and Woodland	The premises and surrounding area are located within the buffer indicating that any remnant native vegetation may be considered to be habitat.
Threatened Fauna	Identified surrounding the premises (<i>Calyptorhynchus latirostris</i> , <i>Tringa nebularia</i> , <i>Isoodon fusciventer</i> , <i>Lerista lineata</i>) indicating that native vegetation may be providing habitat.



Figure 1: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) for each identified emission source 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 applicant 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 applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

Works Approval W6380 that accompanies this Decision Report authorises construction only. The conditions in the issued Works Approval, as outlined in Table 4 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence amendment is required to authorise emissions associated with the operation of the proposed infrastructure i.e. waste acceptance, sorting and storage. A risk assessment for the operational phase has been included in this Decision Report, however licence conditions will not be finalised until the department assesses the licence application.

Table 4: Risk assessment of potential emissions and discharges from the Premises during construction and operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Vehicle movements on unsealed surfaces, minor excavation works	Dust	Air/windborne pathway causing impacts to health and amenity	Rural residential premises mapped within 300 m radius of Premises boundary	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	Condition 1	N/A
Vehicle movement, operation of machinery, placement of site infrastructure	Noise		Commercial premises 310 m south east of Premises and 250 m north west of Premises		C = Moderate L = Unlikely Medium Risk	Y	Subject to provisions of the <i>Environmental Protection (Noise) Regulations 1997</i>	N/A
Operation								
Waste acceptance, sorting and storage	Dust	Air/windborne pathway causing impacts to health and amenity	Rural residential premises mapped within 300 m radius of Premises boundary	Refer to Section 3.1	C = Moderate L = Unlikely Medium Risk	Y	Regulatory controls consistent with applicant controls for the management of dust emissions will be finalised for inclusion on the amended Licence.	N/A
	Noise		Commercial premises 310 m south east of Premises and 250 m north west of Premises		C = Moderate L = Unlikely Medium Risk	Y	Subject to provisions of the <i>Environmental Protection (Noise) Regulations 1997</i> Regulatory controls consistent with applicant controls for management of noise emissions will be finalised for inclusion on the amended Licence.	N/A

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Odour				C = Moderate L = Unlikely Medium Risk	Y	Regulatory controls consistent with applicant controls for management of odour emissions will be finalised for inclusion on the amended Licence.	N/A
	Leachate		Groundwater underlying premises Bushforever Beeliar Regional Park 580 m west of premises		C = Moderate L = Rare Medium Risk	Y	Regulatory controls consistent with applicant controls for management of leachate will be finalised for inclusion on the amended Licence.	N/A
	Potentially contaminated stormwater	Stormwater runoff with potential to infiltrate groundwater	Priority 3 Threatened Ecological Community buffers mapped within premises boundary Threatened fauna identified surrounding the premises		C = Moderate L = Unlikely Medium Risk	Y	Regulatory controls consistent with applicant controls for management of potentially contaminated stormwater will be finalised for inclusion on the amended Licence.	N/A

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
	Fire	Air/windborne pathway causing impacts to health and amenity Environmentally hazardous compounds with potential to contaminate stormwater	Rural residential premises mapped within 300 m radius of Premises boundary Commercial premises 310 m south east of Premises and 250 m north west of Premises Groundwater underlying premises Bushforever Beeliar Regional Park 580m west of premises Priority 3 Threatened Ecological Community buffers mapped within premises boundary Threatened fauna identified surrounding the premises		C = Major L = Rare Medium Risk	Y	Regulatory controls consistent with applicant controls for emissions relating to a fire on the premises will be finalised for inclusion on the amended Licence.	N/A

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

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

4. Consultation

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

Table 5: Consultation

Consultation method	Comments received	Department response
Applicant provided with draft documents (21 August 2020)	The CDS shed has now been removed from the site layout – revised layout attached.	New layout included within works approval.
	The white goods and large steel storage area is now located under the covered area in the saw tooth drop off area – revised layout attached.	<p>The Delegated Officer considers that the new location of the white goods and large steel storage area will not change the risk ratings determined for the emissions of leachate and potentially contaminated stormwater.</p> <p>Removal of reference to use of concrete for construction specifications within works approval conditions.</p> <p>Reference to white goods and large steel storage area updated and revised layout included within the works approval.</p>

5. Conclusion

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

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.

Appendix 1: Application validation summary

SECTION 1: APPLICATION SUMMARY		
Application type		
Works approval	<input checked="" type="checkbox"/>	
Date application received	13/12/2019	
Applicant and Premises details		
Applicant name/s (full legal name/s)	City of Cockburn	
Premises name	Cockburn Community Recycling Centre (CRC)	
Premises location	Lot 235 on Plan 226117 and Lot 2 on Plan D107998	
Local Government Authority	City of Cockburn	
Application documents		
HPCM file reference number:	DER2018/001042-2~82	
Key application documents (additional to application form):	Environmental Assessment and Management Plan	
Scope of application/assessment		
Summary of proposed activities or changes to existing operations.	<p>Construction of a community drop off area, a reuse shop, a community education centre and an administration office.</p> <p>The CRC will provide a range of services for members of the public to deliver waste materials for treatments including reuse, recycling and disposal.</p>	
Category number/s (activities that cause the premises to become prescribed premises)		
Table 1: Prescribed premises categories		
Prescribed premises category and description	Proposed production or design capacity	
Category 62: Solid waste depot	70,000 tonnes per annual period	
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 checked="" 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 checked="" 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: LGA - Public Works Exemption under the <i>Planning and Development Act 2005</i> Premises is subject to the <i>Hope Valley – Wattleup Redevelopment Act 2000</i> – zoning is consistent with the proposed use.
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CPS No: CPS8766/1
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
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: Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office:
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: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i> , <i>Environmental Protection (Controlled Waste) Regulations 2004</i> , <i>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"/>	
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Classification: possibly contaminated – investigation required (PC–IR) Date of classification: 01/06/2011