

Amendment Notice 1

Licence Number	L8861/2014/1
Licence Holder ACN	Karratha Recycling Pty Ltd 163 991 106
File Number:	DER2014/002439
Premises	Karratha Recycling Liquid Waste Facility Exploration Drive GAP RIDGE WA 6714 Being Lot 111 and 112 on Plan 75061

Date of Amendment 07 February 2018

Amendment

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

Date signed: 7 February 2018

Rebecca Kelly

MANAGER LICENSING (WASTE INDUSTRIES) REGULATORY SERVICES (ENVIRONMENT)

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

Definitions and interpretation

Definitions

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

Table 1: Definitions

Term	Definition	
ACN	Australian Company Number	
AER	Annual Environment Report	
Amendment Notice	refers to this document	
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations	
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act</i> <i>1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au	
Delegated Officer	an officer under section 20 of the EP Act	
Department	means the department established under section 35 of the <i>Public</i> Sector Management Act 1994 and designated as responsible for the administration of Part V, Division 3 of the EP Act.	
DWER	Department of Water and Environmental Regulation	
EP Act	Environmental Protection Act 1986 (WA)	
EP Regulations	Environmental Protection Regulations 1987 (WA)	
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review	
Licence Holder	Karratha Recycling Pty Ltd	
Occupier	has the same meaning given to that term under the EP Act.	
Prescribed Premises	has the same meaning given to that term under the EP Act.	
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.	

Risk Event	as described in Guidance Statement: Risk Assessment
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Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

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

- Guidance Statement: Regulatory Principles (July 2015)
- Guidance Statement: Setting Conditions (October 2015)
- Guidance Statement: Decision Making (February 2017)
- Guidance Statement: Risk Assessment (February 2017)
- Guidance Statement: Environmental Siting (November 2016)

Amendment description

The Licence Holder submitted an application to the Department of Water and Environmental Regulation (DWER) on the 29 January 2018 to permit the acceptance of an additional liquid waste type. The waste type proposed to be accepted is high-saline industrial wash waters (TDS of >100,000mg/l), which is considered to be a controlled waste category D300. There is no change to the waste quantities on the licence.

The Applicant is proposing to accept the liquid waste into the evaporation pond stage of the current wastewater treatment system. No additional works or construction is required to accept the new waste type, and once added to the evaporation pond all other processes will remain the same.

The Delegated Officer notes that the Premises is currently subject to works approval W5806/2015/1, which permits the construction of a new larger evaporation pond to facilitate an increased throughput of 100,000 tonnes per annual period of liquid waste.

The operation of the new evaporation pond and the acceptance of an increased volume of liquid waste will be assessed following the completion of the works specified under W5806/2015/1 and are not considered as part of this amendment.

Location and receptors

Table 2 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 2: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises	
Temporary accommodations	2.05km north east	
Residential receptors (Madigan Estate)	2.7km north east	

Table 3 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 3: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises		
Groundwater	Between 7.3-10 metres below ground level, flowing in a northerly direction toward Nickol Bay.		

Threatened Ecological Community (TEC)	Premises is within a TEC buffer zone
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There are no surface waters or river systems within 3km of the Premises.

Risk assessment

Table 4 below describes the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments* and identifies whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Risk Event									
Source//	Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts	Consequence Likelihood rating rating		Risk	Reasoning
Cat 61 Viguid wasto		cceptance f high- aline ndustrial /ash waters D300)	Groundwater	Seepage due to overflow or damage to liner	Impacts to groundwater quality	Moderate	Rare	Medium	Groundwater may be impacted due to the hypersaline quality of the wash waters, however due to the distance to groundwater and the HDPE lining of the evaporation pond impacts may only occur in exceptional circumstances of a spill or liner failure.
	industrial wash waters (D300)		On-site soils and neighbouring properties	Direct emission, overflow or seepage	Impacts to soil quality	Slight	Rare	Low	The area surrounding the premises is industrial, including a waste depot which is registered as potentially contaminated. Any impacts are likely to be minimal and are only expected to occur in the event of a spill or liner failure.
	directly into the evaporation pond		Threatened Ecological Community	Direct emission or overflow	Impacts to ecological community	Slight	Rare	Low	The area surrounding the premises is industrial with no native flora or fauna present. Any impacts are likely to be minimal and are only expected to occur in the event of a spill or liner failure.
		Odour: high-saline wash waters which may contain odourous contaminants	Nearest residential premises	Air	Amenity impacts	Slight	Unlikely	Low	Industrial wash waters are not generally considered to be odourous. In the event that an odourous load is accepted, there is considered to be a significant distance to the nearest residential receptor.

Table 4: Risk assessment for proposed amendments during operation

Licence: L8861/202014/1

Decision

The Delegated Officer has determined that the additional waste category poses a medium risk to groundwater and is therefore acceptable subject to controls.

The Delegated Officer has determined that the controls currently on the licence relating to the management of ponds (including 500mm freeboard), containment infrastructure requirements and monitoring requirements are sufficient to mitigate any potential environmental or public health impacts.

Therefore, the licence will be amended to the extent that the additional waste types are permitted to be accepted and disposed of into the evaporation pond only.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 7 February 2018. The Licence Holder responded on the same day with no comments, and requested that the consultation period be waived and the licence amendment be issued as soon as possible.

Amendment

1. Table 1.3.1 of the Licence is amended by the insertion of the red text shown in underline below:

Table 1.3.1: Waste acceptance				
Waste type	Waste Code	Quantity limit	Specification ¹	
Sewage Septage waste (Sewage) – domestic	N/A			
wastes from apparatus for the treatment of sewage	K210	20,000 tonnes per annual period	Liquid waste receipt in tankers. Discharged to primary treatment pond	
Waste from grease traps	K110	_		
High-saline industrial wash waters	<u>D300</u>		Liquid waste receipt in tankers. Discharged to evaporation pond only	
Processed RAP	N/A	20,000 tonnes per annual period	 The Licensee shall ensure that Processed RAP does not contain any of the following materials: Granular pavement materials, clay, soil or organic matter Bricks, concrete, glass or building materials; or Laterite asphalt, tar based products, geotextile fabrics, raised pavement markers or surface treatments such as high friction surfacings or green or red pavement markings 	

Note 1: Additional requirements for the acceptance of controlled waste are set out in the Environmental Protection

2. Table 1.3.2 of the Licence is amended by the insertion of the red text shown in underline below:

Table 1.3.2: Waste processing				
Waste type	Process	Process limits		
Sewage Septage waste (Sewage) – domestic wastes from apparatus for the treatment of sewage Waste from grease traps		 Primary treatment (Pond 1 an 2): Water depth to sludge shall be greater than 0.4 m or equivalent and sludge depth on ponds to be less than 1m or equivalent; pH of wastewater to be maintained at 6.5 to 9; and 		
<u>High-saline industrial</u> wash waters	Receipt in tankers; physical, biological and chemical treatment	 Scum/rags to have less than 5% coverage across pond surfaces. Secondary treatment (Pond 3 and 4): Water depth to sludge shall be greater than 0.4 m or equivalent and sludge depth on ponds to be less than 1m or equivalent; pH of wastewater to be maintained at 6.5 to 9; Treatment of waste shall be at or below the treatment capacity of 20,000 tonnes per annual period. 		
Sewage sludge resulting from onsite liquid waste treatment	Drying out of ponds; Storage prior to landfill disposal	300 m ³ at any one time prior to landfill disposal off-site		
Processed RAP	Asphalt manufacturing	500 tonnes at any time		

Appendix 1: Key documents

	Document title	In text ref	Availability
1	Application documentation – 29 January 2018	N/A	DWER records (A1603473)
2	Licence L8861/2014/1 – Karratha Recycling Pty Ltd	L8861/2014/1	accessed at <u>www.dwer.wa.gov.au</u>
3	Works Approval W5806/2015/1 – Karratha Recycling Pty Ltd	W5806/2015/1	accessed at <u>www.dwer.wa.gov.au</u>