



<b>Licence Number</b>	L8848/2014/1
<b>Licence Holder</b>	Cleanaway Waste Management Ltd
<b>ACN</b>	010745383
<b>File Number:</b>	DER2014/002256
<b>Premises</b>	Karratha Waste Handling Facility Lot 609, Plan 66691 Wargul Way, COOYA POOYA WA
<b>Date of Amendment</b>	18 October 2017

## 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* 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: 18 October 2017

**Steve Checker**

**MANAGER LICENSING (WASTE INDUSTRIES)**

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
AACR	Annual Audit Compliance Report
ACN	Australian Company Number
AER	Annual Environment Report
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 1986</i> Locked Bag 33 Cloisters Square PERTH WA 6850 <a href="mailto:info-der@dwer.wa.gov.au">info-der@dwer.wa.gov.au</a>
CS Act	<i>Contaminated Sites Act 2003 (WA)</i>
Decision Report	refers to this document
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
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	Cleanaway Waste Management Ltd

m <sup>3</sup>	cubic metres
Minister	the Minister responsible for the EP Act and associated regulations
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
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 <i>Guidance Statement: Risk Assessment</i>
UDR	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)</i>

## 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: Land Use Planning (February 2017)*
- *Guidance Statement: Licence Duration (August 2016)*
- *Guidance Statement: Decision Making (November 2016)*
- *Guidance Statement: Risk Assessment (November 2016)*
- *Guidance Statement: Environmental Siting (November 2016)*

## Amendment description

The Licence Holder submitted an amendment application on 13 July 2017 to increase the amount of liquid and solid waste to be accepted at the Premises. As part of the increase acceptance of waste at the Premises the Applicant propose to construct the following infrastructure:

1. Three interconnected evaporation ponds with total volume 2430m<sup>3</sup> (25m x 25m in area)
2. One hardstand area of approximately 2400m<sup>2</sup> for storage of containers (40m x 60m)
3. One ring road (6m wide and 140m long) installed to service evaporation ponds, bunded area and new hardstand area
4. One 20m x 40m bunded area adjacent to evaporation ponds with a dividing wall in the centre.
5. Extension of concrete bund adjacent to existing bio-pit (9.5m x 25m with a 2000L blind sump, bund capacity of 2.2m<sup>3</sup>)
6. Four concrete bunded bays, segregation walls at 1m with a bund capacity of 1300L as well as four (4) concrete bunded bays, segregation walls at 2m with a bund capacity of 1450L installed in Hazardous Processing Shed in place of temporary rubber bunds. Each bay will have a 100mm trafficable bund at the entry point to allow forklift access.

Table 2 below outlines the proposed changes to the Licence

**Table 2: Proposed throughput capacity changes**

Category	Current [throughput capacity	Proposed throughput capacity
57	N/A	400 used tyres
61	10,000 tonnes per annual period	30,000 tonnes per annual period
61A	10,000 tonnes per annual period	40,000 tonnes per annual period
62	7,000 tonnes per annual period	10,000 tonnes per annual period

## Location and receptors

Table 5 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

**Table 3: Receptors and distance from activity boundary**

Residential and sensitive premises	Distance from Prescribed Premises
Accommodation Camp	1.8km north

Table 6 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

**Table 4: Environmental receptors and distance from activity boundary**

Environmental receptors	Distance from Prescribed Premises
Groundwater	Depth to groundwater at the site is between 8-10 metres below ground level. Groundwater flows from east to west at the premises.  No known potable or industrial uses in the area due to depth below ground level.

## Risk assessment

Tables 7 and 8 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

**Table 5: Risk assessment for proposed amendments during construction**

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
<b>Construction, mobilisation and positioning of infrastructure</b>	Dust	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Air / wind dispersion	Amenity impacts	Minor	Unlikely	Medium	Dust emissions during construction are expected to be limited to vehicle movements and earthworks machinery from construction of the evaporation ponds. The Applicant has advised that appropriate controls will be in place during construction of the wash pad however specific details of these controls have not been provided. The Delegated Officer has determined that dust can be regulated through s.49 of the EP Act.
	Noise	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Air / wind dispersion	Amenity impacts	Minor	Rare	Low	Noise emissions during construction are expected to be limited to vehicle movements and the construction of the evaporation ponds and hardstand areas. The Applicant has advised that appropriate controls will be in place during construction of the wash pad however specific details of these controls have not been provided. The Delegated Officer has determined that the impact of noise emissions can be regulated through the <i>Environmental Protection (Noise) Regulations 1997</i> .

**Table 6: Risk assessment for proposed amendments during operation**

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts					
<b>Category 61 Liquid waste facility:</b> Operation of Evaporation ponds	Increased liquid waste acceptance, storage, treatment and disposal via evaporation	<b>Odour:</b> associated with effluent disposal	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Air / wind dispersion	Amenity impacts causing nuisance (human health)	Minor	Rare	Low	The location of the evaporation ponds are located 500m from the boundary of Toxfree's waste handling facility. Only industrial wash water will be accepted for disposal via evaporation. Liquid wastes are held in sealed tanks, reducing the potential for odour. Some odours may be expected from the oily water separator plant The Delegated Officer considers that odour from the premises can be regulated under S49 of the EP Act.
		Seepage and runoff from spills stormwater and containment failure.	Depth to groundwater at the site is between 8-10 mbgl. TDS ranges from 1,000 to 2,500 mg/L. No known potable or industrial uses in the area due to	Infiltration to groundwater through underlying soils	Contamination of land and underlying groundwater	Moderate	Rare	Medium	Potential seepage and spills of hazardous liquids such as hydrocarbons and septage wastes has the potential to contaminated groundwater beneath the site. Groundwater in the area is considered brackish and has limited use

			depth below ground level.						potential. The evaporation ponds will be lined with HDPE. Cleanaway will conduct pond integrity tests prior to accepting waste for disposal via evaporation. <u>Discharging</u> of waste into the evaporation ponds will be on a bunded hardstand area to prevent any material gaining access to the environment. The Delegated Officer considers that the applicant controls are sufficient to prevent an unauthorised to the environment.
<b>Cat 61A:</b> Solid waste facility  <b>Cat 62:</b> Solid waste Depot	Increased Solid waste acceptance , storage, treatment prior to disposal offsite	Odour	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Air / wind dispersion	Health and amenity impacts.	Minor	Rare	Unlikely	Solid hazardous waste will be delivered to the premises in sealed containers with no further treatment or mixing onsite. Some odour may be generated from the sludge bays and bioremediation pits. . However, Transpacific will ensure offensive odours emitted beyond the boundary of the site. The Delegated Officer considers that odour from the premises can be regulated under S49 of the EP Act.
		Asbestos	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Air / wind dispersion	Health impacts	Severe	Rare	High	The applicant has outlined that all asbestos waste will be pre-wrapped in plastic prior to arriving at the premises. Asbestos will remain sealed in an open top skip bin and taken to an appropriate licensed facility for disposal. Asbestos will not be consolidated or



									repackaged at the premises. The Delegated Officer considers the controls listed by the applicant sufficient to prevent asbestos fibres becoming airborne.
	Seepage and runoff from spills stormwater and containment failure.	Toxfree premises located adjacent (south)  Accommodation Camp located 1.8km north.	Infiltration to groundwater through underlying soils	Contamination of land and underlying groundwater	Minor	Rare	Low	Potential seepage and spills of hazardous solid wastes has the potential to contaminate groundwater beneath the site. Groundwater in the area is considered brackish and has limited use potential. All solid hazardous wastes will be stored within lined concreted areas or hardstand area with roll over bunding to prevent spillages occurring at the premises. The Delegated Officer considers that the applicant controls are sufficient to prevent an unauthorised to the environment.	

## Decision

The Delegated Officer has determined that an amendment be made to the Licence conditions to allow for the increased of waste material to be accepted at the premises, which will include the construction and commissioning of 3 evaporation ponds and additional concrete bunded bays and hardstand areas.

The amendment notice incorporates amending the prescribed premises categories to allow for the increased design capacity of the premises. Condition 1.2.10 and 1.2.11 will require infrastructure to be constructed in specific detail as outlined in column two of table 1.2.4 to ensure works are carried out as intended to be constructed as submitted by the Applicant and to ensure there are no risks to public health or the environment. Condition 1.2.11 requires a notification to the CEO if there have been departures for the works specification table in order for DWER to assess if the changes made have potential to impact public health or the environment. Conditions 1.2.13 and 1.2.14 require a compliance document to be submitted to the CEO to outline that each infrastructure has been constructed in accordance with the Amendment Notice.

Condition 1.2.3 has been amended as requested by the Licence Holder due to practicality of achieving compliance with recording container identification for all wastes containers. The Delegated Officer agrees that this requirement was not practical and has removed this requirement from the condition.

Condition 1.2.5 has been amended to allow for the increase waste quantities and waste types as request by the Licence Holder. The Delegated Officer acknowledges that waste streams are varied foe the site, however has amended the condition to state that quantity limits for waste acceptance must not exceed the approved Premises production or design capacity for the premises. The Delegated Officer has also considered the premises storage requirements for the waste to be accepted at the premises and is satisfied the Applicant has sufficient capacity and infrastructure to store the increased amount of waste on the premises.

Condition 1.2.8 has been amended to add the Bioremediation Bays to the list of Containment Infrastructure as listed in table 1.3.3 as requested by the Licence Holder.

Conditions 2.2.1, 2.3.1 3.1.1 have been amended due to an administration error, as requested by the Licence Holder.

Condition 3.1.5 has been amended to remove the requirement of the Licence Holder to record the origin of waste received at the Premises due to practicality of achieving compliance and some waste material being received from various locations. The Delegated Officer has removed this requirement from the condition as requested by the Licence Holder.

Condition 3.2.2 has been amended to remove the requirement for the Licence Holder to provide production or operational data recorded under Condition 3.1.3, as this condition is not relevant and was introduced in error. The Delegated officer has remove this requirement as requested by the Licence Holder.

## Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 5 October 2017. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

## Amendment

1. The Licence is amended by the addition of Conditions 1.2.10, 1.2.11, 1.2.12, 1.2.13 and 1.2.14 as shown below

1.2.10 *The Licensee must ensure that the proposed works specified in Column 1 of Table 1.2.4 meets or exceeds the specifications in Column 2 of Table 1.2.4 for the infrastructure in each row of Table 1.2.4.*

- 1.2.11 *The Licensee must not depart from the specifications in Table 1.2.1 except:*
- (a) *where such departure is minor in nature and does not materially change or affect the infrastructure; or*
  - (b) *where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment; and all other Conditions in this Licence are still satisfied.*

**Table 1.2.4: Works specifications**

Column 1 Infrastructure <sup>1</sup>	Column 2 Specifications (design and construction)
Evaporation Ponds 1-3	<ol style="list-style-type: none"> <li>1. Each evaporation pond shall be constructed to 25m long and 25m wide and 3m deep</li> <li>2. Compacted subgrade to be smooth and free of debris and</li> <li>3. Each evaporation pond shall be lined with HDPE and shall be subject to construction quality assurance processes in accordance with Level 1 of Australian Standard AS3798-2007 Guidelines on Earthworks for Commercial and Residential Development; and</li> <li>4. Each HDPE lining shall be secured by dedicated anchor trenches.</li> </ol>
Hardstand Area	5. Shall be constructed to approximately 40m wide and 60m long with 100mm of blue metal down laid down on the surface
Ring Road	6. Shall be constructed to approximately 40m wide and 60m long with 100mm of blue metal down laid down on the surface
Bunded Area adjacent to Evaporation Ponds	<ol style="list-style-type: none"> <li>7. Shall be be constructed to 20m wide and 40m long;</li> <li>8. 100mm of topsoil to be removed from bunded area; and</li> <li>9. Bunded area to be laid with HPDE then covered with 100mm of blue metal.</li> </ol>
Concrete Bund	10. To be constructed to 9.5m long and 2.5m wide with a 2kL blind sump an capacity of 2.2m <sup>3</sup>
Concrete Bunded Bays 1-4	<ol style="list-style-type: none"> <li>11. Each bay to be constructed to have a 100mm trafficable bund at the entry point to allow forklift access;and</li> <li>12. Each bay shall be constructed a capacity of 1300L.</li> </ol>

1.2.12 *If any departures outlined in Condition 1.2.11 apply, then the Licensee must provide the CEO with a list of departures which are certified as complying with Condition 1.2.11 at the same time as the certifications under Condition 1.2.13.*

1.2.13 *The Licensee must submit a construction compliance document to the CEO within one month, following the construction of the Works at the Premises.*

1.2.14 *The Licensee must ensure the construction compliance document:*

- (a) *is certified that each item of infrastructure specified under Condition 1.2.11, Table 1.2.4 has been constructed in accordance with the Conditions of the Licence and any documentation submitted under condition 1.2.12 with no material defects; and*
- (b) *is signed by a person authorised to represent the Licensee and contain the printed name and position of that person within the company.*

2. Condition 1.2.3 of the Licence has been amended by the deletion of the text shown in strikethrough below:

1.2.3 *The Licensee shall ensure that all waste containers at the premises are clearly labelled to display the following information:*

- (a) ~~unique container identification number which includes the Waste Reveal Ticket Number; and~~
- (b) ~~waste description.~~

3. Condition 1.2.5 of the Licence has been amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

1.2.5 *The Licensee shall only allow waste to be accepted on to the Premises if:*

- (a) *it is of a type listed in Table 1.3.1; and*
- (b) *the quantity accepted is below any limit listed in Table 1.3.1; and*
- (c) *it meets any specification listed in Table 1.3.1*

**Table 1.3.1 Waste types for waste acceptance**

Waste	Waste Code	Quantity Limit <sup>1</sup>	Specification <sup>2</sup>
Clean Fill	N/A	10,000 tonnes per annual period	None specified
Recyclables	N/A	10,000 tonnes per annual period	None specified
<b>Acids</b>			
Acidic solutions	B100	Not specified	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
<b>Bases</b>			
Basic solutions or bases in solid form	C100	Not specified	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
<b>Clinical and pharmaceutical</b>			
Clinical waste	R100, R130	<del>4500 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Waste from the production or preparation of pharmaceutical products	R140	<del>100 t/annual period</del>	
Waste pharmaceutical drugs or medicines	R120	<del>100 t/annual period</del>	
<b>Industrial wash water</b>			
Industrial wash water contaminated with a controlled waste	L150	Not specified	Delivered in liquid waste truck. Discharged into bunded liquid waste treatment plant.
Car and truck wash waters	L100	Not specified	
<b>Inorganic chemicals</b>			
Antimony and antimony compounds	D170	<del>200 t/annual period</del>	

Arsenic and arsenic compounds	D130	200 t/annual period	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Barium compounds other than barium sulphate	D290	200 t/annual period	
Beryllium and beryllium compounds	D160	200 t/annual period	
Boron compounds	D310	200 t/annual period	
Cadmium and cadmium compounds	D150, D151	200 t/annual period	
Chlorates	D350	200 t/annual period	
Cobalt or cobalt compounds	D200	200 t/annual period	
Copper compounds	D190	200 t/annual period	
Chromium compounds (hexavalent or trivalent)	D140	200 t/annual period	
Inorganic fluorine compounds excluding calcium fluoride	D110	200 t/annual period	
Inorganic sulphides	D330	200 t/annual period	
Lead and lead compounds	D220, D221	200 t/annual period	
Mercury and mercury compounds	D120	200 t/annual period 500 t/annual period	
Metal carbonyls	D100	200 t/annual period	
Nickel compounds	D210, D211	200 t/annual period	
Non-toxic salts	D300	200 t/annual period	
Perchlorates	D340	200 t/annual period	
Phosphorus compounds other than mineral phosphates	D360	200 t/annual period 500 t/annual period	
Selenium and selenium compounds	D240	200 t/annual period	
Tannery wastes (including leather dust, ash, sludge or flours)	D141	200 t/annual period 200 t/annual period	
Tellurium and tellurium compounds	D250	200 t/annual period	
Thallium and thallium compounds	D180	200 t/annual period	
Vanadium compounds	D270	200 t/annual period	
Zinc compounds	D230	200 t/annual period 200 t/annual period 200 t/annual period 200 t/annual period 10,000 tonnes per annual period	
<b>Miscellaneous</b>			
Waste chemical substances arising from research and development or teaching activities which substances are not identified or are new	T100	200 t/annual period	Stored in pits, remediation pad,

or the effects of which on human health or the environment are not know			impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Waste from the production, formulation, or use of photographic chemicals or processing material	T120	100 t/annual period	
Used Tyres	T140	400 used tyres	Used tyres shall be stored at least 6m from any combustible material, wall, building or fence and be stored stacked on their sides or if stored upright on their treads
<b>Oils</b>			
Waste mineral oils unfit for their intended use	J100, J130, J170, J180	Not specified	J130, J100 liquids, Delivered in liquid waste truck. Discharged into banded liquid waste treatment plant. J170, J100 solids. Packaged waste stored in impervious containers. Delivered on DER licensed flatbed truck. Stored in banded/segregated hydrocarbons process shed.
Waste oil and water, or hydrocarbons and water, mixtures or emulsions	J120	Not specified	Delivered in liquid waste truck. Discharged into banded liquid waste treatment plant.
Waste tarry residues arising from refining, distillation, or pyrolytic treatment	J160	Not specified	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
<b>Organic chemicals</b>			
Cyanides (organic) and nitriles	M210	<del>200 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Highly odorous organic chemicals (including mercaptans and acrylates)	M260	<del>200 t/annual period</del>	
Isocyanate compounds	M220	<del>200 t/annual period</del>	
Organic solvents excluding halogenated solvents	M130	<del>200 t/annual period</del>	
Organohalogen compounds other than substances referred to elsewhere	M160	<del>200 t/annual period</del>	
Phenols, phenol compounds including chlorophenols	M150	<del>200 t/annual period</del>	
Polychlorinated Biphenyls (PCBs)	M100	<del>200 t/annual period</del>	
Polychlorinated dibenzofuran (any congener)	M170	<del>200 t/annual period</del>	
Polychlorinated dibenzo-p-dioxin (any congener)	M180	<del>200 t/annual period</del>	
Surface active agents (surfactants), containing mainly organic constituents and which may contain metals and inorganic materials	M250	<del>200 t/annual period</del> 40,000 tonnes	

Triethylamine catalysts for setting foundry sands	M230	<i>per annual period</i>	
Waste, substances, or articles containing or contaminated by polychlorinated biphenyls (PCBs), polychlorinated naphthalenes (PCNs), polychlorinated terphenyls (PCTs), or polybrominated biphenyls (PBBs)	M105		
<b>Organic solvents</b>			
Ethers	G100	<del>200 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Halogenated organic solvents	G150	<del>200 t/annual period</del>	
Organic solvents excluding halogenated solvents	G110, G130	<del>200 t/annual period</del>	
Waste from the production, formulation, or use of organic solvents	G160	<del>200 t/annual period</del> <i>40,000 tonnes per annual period</i>	
<b>Paints, resins, inks and organic sludges</b>			
Waste from the production, formulation, or use of inks, dyes, pigments, paints, lacquers or varnish	F100, F120	<del>200 t/annual period</del> <del>200 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Waste from the production, formulation, or use of resins, latex, plasticisers, glues, or adhesives	F110, F130	<i>40,000 tonnes per annual period</i>	
<b>Pesticides</b>			
Organic phosphorus compounds	H110	<del>200 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licenced flatbed truck/tanker/tipper. Stored in designated waste storage area.
Organochlorine pesticides (OCPs)	H130	<del>200 t/annual period</del>	
Waste from the manufacture, formulation or use of wood-preserving chemicals	H170	<del>200 t/annual period</del> <del>200 t/annual period</del>	
Waste from the production, formulation, or use of biocides and phytopharmaceuticals	H100	<i>10,000 tonnes per annual period</i>	
<b>Plating &amp; heat treatment</b>			
Cyanides (inorganic)	A130	<del>100 t/annual period</del>	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Waste resulting from surface treatments of metals or plastics	A100	<del>100 t/annual period</del>	
Waste from heat treatment or tempering operations containing cyanides	A110	<del>100 t/annual period</del> <i>10,000 tonnes per annual period</i>	

<b>Putrescible and Organic wastes</b>			
Sewage waste from the reticulated sewerage system	K130	<del>Not specified</del> 10,000 tonnes per annual period	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Vegetable and food processing liquid wastes	K200		
<b>Reactive chemicals</b>			
Waste containing peroxides other than hydrogen peroxide	E100	<del>200 t/annual period</del> 5,000 tonnes per annual period	Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Waste of an explosive nature not subject to other legislation	E120		
Highly reactive chemicals not otherwise specified	E130		
<b>Soils and sludge</b>			
Ceramic based fibres with physio-chemical characteristics similar to those of asbestos	N230	<del>100 t/annual period</del> <del>1 000 t/annual period</del> <del>7 000 t/annual period</del> <del>7 000 t/annual period</del> <del>500 t/annual period</del> <del>1 000 t/annual period</del> <del>7 000 t/annual period</del> <del>40,000 tonnes per annual period</del>	Stored in impervious containers. Delivered on DWER licensed flatbed truck. Stored in banded/segregated hazardous waste storage area.
Containers or drums that are contaminated with residues of a controlled waste	N100		Stored in pits, remediation pad, impervious containers or tanks. Delivered on DWER licensed flatbed truck/tanker/tipper. Stored in designated waste storage area.
Soils contaminated with a controlled waste	N120		
Encapsulated, chemically-fixed, solidified, or polymerised controlled wastes	N160		
Filter cake containing controlled wastes	N190		
Fire debris or fire washwaters	N140		
Residues from industrial waste treatment or disposal operations	N205		
Fly ash	N150		
Asbestos	N220		

Note 1: Waste streams are variable for the site, however quantity limits for waste acceptance overall must not exceed the Approved Premises production or design capacity stated on page 1 of this Licence.

Note 2: Additional requirements for the acceptance of controlled waste are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

4. Condition 1.2.8 of the Licence is amended by the insertion of the following in red text:

*1.2.8 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.3.*

**Table 1.3.3: Containment infrastructure**

Vessel or compound	Material	Requirements
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Storage Tanks	Wastewater, stormwater and oil	Located in bunded hardstand area and stored in impervious tanks.
Packaged waste for transshipment. IBCs and Drums	As per table 1.3.1	Located in bunded hardstand area and stored in impervious containers or tanks.
Solids Storage Bays	Materials for landfill pending analysis	Located in bunded hardstand area
Bioremediation Bays	Soils, sludges and liquid wastes	Located in bunded hardstand area

5. Condition 2.2.1 of the Licence is amended by the deletion of the text shown in strikethrough below by the insertion of the following in red text:

*2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.*

**Table 2.2.1: Monitoring of inputs and outputs**

Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Waste Types listed in Table 1.3.1	Tonnes	Monthly	Each load arriving at the Premises
Waste Outputs	Waste Types listed in Table 1.3.1			Each load leaving or rejected from the Premises

6. Condition 2.3.1 of the Licence is amended by the deletion of the text shown in strikethrough below by the insertion of the following in red text:

*2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table.*

**Table 2.3.1: Monitoring of ambient groundwater quality**

Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
BH01 – BH03	Standing water level	m(AHD) mBGL	Spot sample	Six monthly
	pH <sup>1</sup>	pH units		
	BTEX (Benzene, Toluene, Ethyl benzene, Xylene)	µg/L		
	Polycyclic Aromatic Hydrocarbons	mg/L		
	Total Recoverable Hydrocarbons			
	Lead			
	Copper			
	Zinc			
	Arsenic			
	Nickel			
	Mercury			
Cadmium				

	Chromium			
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7. Condition 3.1.5 of the Licence is amended by the deletion of the text shown in strikethrough and by the insertion of red text below:

3.1.1 All information and records required by the Licence shall:

- (~~ba~~) be legible;
- (~~eb~~) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- (~~dc~~) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- (~~ed~~) for those following records, be retained until the expiry of the Licence and any subsequent licence:
  - (i) off-site environmental effects; or
  - (ii) matters which affect the condition of the land or waters.

8. Condition 3.1.5 of the Licence is amended by the deletion of the text shown in strikethrough below:

3.1.5 *The Licensee shall maintain records of all wastes accepted, stored and dispatched from the premises that includes, but is not limited to:*

- (a) *date of acceptance;*
- (b) *description of the waste including waste type code;*
- ~~(c) *origin of the waste;*~~
- (d) *name of the waste producer;*
- (e) *quantity of the waste received;*
- (f) *results of any analysis (if applicable);*
- (g) *location of the waste at the premises;*
- (h) *controlled waste tracking form number (inwards);*
- (i) *date(s) of transport off site;*
- (j) *destination of waste or product;*
- (k) *quantity of the waste or product dispatched;*
- (l) *nature of the waste or product dispatched;*
- (m) *any certificate of analysis of the waste dispatched (if applicable); and*
- (n) *controlled waste tracking form number (outwards).*

9. Condition 3.2.2 of the Licence is amended by the deletion of the text shown in strikethrough below:

3.2.2 *The Licensee shall ensure that the Annual Environmental Report also contains:*

- ~~(a) *any relevant process, production or operational data recorded under Condition 3.1.3; and*~~
- (b) *an assessment of the information contained within the report against previous monitoring results and Licence limits.*

## Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L8848/2014/1 – Karratha Waste Handling Facility	L8848/2014/1	accessed at <a href="http://www.dwer.wa.gov.au">www.dwer.wa.gov.au</a>
2	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at <a href="http://www.dwer.wa.gov.au">www.dwer.wa.gov.au</a>
3	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	DER 2015b	
4	DER, August 2016. <i>Guidance Statement: Licence duration</i> . Department of Environment Regulation, Perth.	DER 2016a	
5	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	DER 2016b	
6	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	

## Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 5 October 2017 for review and comment.

Condition	Summary of Licence Holder comment	DWER response
1.2.5	Add waste code N150 (fly ash) to waste codes for acceptance.	The Delegated Officer has included waste code N150 to the waste code (table 1.3.1) which was initially omitted in error by DWER.