



Amendment Notice 3

Licence Number	L6818/1997/11
Licence Holder	Shire of Bridgetown-Greenbushes
File Number:	DER2015/000123
Premises	Bridgetown Waste Management Facility Boyup Brook Road BRIDGETOWN WA 6255 Legal description – Lot 903 on Plan 189961
Date of Amendment	22 May 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: 22 May 2018

Stephen Checker

**MANAGER LICENCING (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
AACR	Annual Audit Compliance Report
ACN	Australian Company Number
AER	Annual Environment Report
Amendment Notice	refers to this document
AS 4156.6 – 2000	Australian Standard AS 4156.6 – 2000: Determination of Dust/moisture Relationship for Coal.
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 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 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>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999 (Cth)</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	Shire of Bridgetown-Greenbushes
m ³	cubic metres
Minister	the Minister responsible for the EP Act and associated regulations
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 (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

On 14 July 2017 the Shire of Bridgetown-Greenbushes (Licence Holder) submitted an application to amend the existing Licence to enable the construction of a new Liquid Waste Facility at the premises. Further information was provided on 30 January 2018 to support the application.

The current (termed 'old') liquid waste pond at the Premises is nearing capacity. The Licence Holder has applied to construct a new, synthetically lined pond system with an increased throughput capacity of 700 tonnes per annum. Upon construction of the new liquid waste pond, the old liquid waste pond will be decommissioned and capped.

The Licence Holder also applied for Category 13 crushing activities for the purposes of crushing up to 950 tonnes per annum of inert Type 1 wastes to be stockpiled and utilised as cover material onsite. It was agreed with the Licence Holder's representative to withdraw this part of the application as the proposed throughput is below the requirements for licensing under the *Environmental Protection Regulations 1987*. The proposed Category 13 activities are not required to be licensed and will be undertaken subject to the general provisions of the EP Act and associated legislation.

Table 2: Proposed throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
61	650 tonnes per annum	700 tonnes per annum	Installation of a new liquid waste pond

Other approvals

The Licence Holder has provided the following information relating to other approvals as outlined in Table 3.

Table 3: Relevant approvals

Legislation	Number	Approval
Environmental Protection Act 1986	CPS7722/1	Clearing Permit pending a decision to grant this amendment.

Amendment history

Table 4 provides the amendment history for L6818/1997/11.

Table 4: Licence amendments

Instrument	Issued	Amendment
L6818/1997/11	03/05/2013	Licence re-issue
W5677/2014/1	23/07/2015	New works approval granted for an additional cell
W5667/2014/1	22/08/2016	Works approval amended or construction of cell 2
L6818/1997/11	22/08/2016	Licence amendment for operation of cell 1 and leachate pond
L6818/1997/11	09/02/2017	Amendment Notice 1 for extension to use Liquid Waste Facility until 31/03/18
L6818/1997/11	29/03/2018	Amendment Notice 2 for extension to use Liquid Waste Facility until 31/12/18
L6818/1997/11	22/05/2018	Amendment Notice 3 for construction of a new Liquid Waste Facility

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 5: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Closest residential premises	400m north east and 580m south east of the proposed new liquid waste pond

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 6: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Hester Conservation Park Class A	100m north
Kaniyang 18 Camp Aboriginal Site of Significance 17495	350m south west
Blackwood River Aboriginal Site of Significance 20434	1.1km north west
Minor perennial watercourses, including dams	Multiple within 1km radius

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 7: 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					
Category 61 Liquid Waste Facility	Construction of new Liquid Waste Pond and associated infrastructure	Dust	Residence 400m NE	Air / wind dispersion	Amenity	Slight	Unlikely	Low	The frequency of vehicle movements and the low number of vehicles likely to be used during operation will generate low dust emissions. The Delegated Officer considers the low levels of dust combined with the Licensee's commitment to water spraying for dust suppression, and the separation distance between the source and receptors as adequate to ensure a low risk rating. Dust emissions are sufficiently managed under section 49 of the <i>Environmental Protection Regulations 1987</i> .
		Noise	Residence 580m SE						Slight

Table 8: Risk assessment for proposed amendments during operation

Source/Activities		Risk Event				Consequence rating	Likelihood rating	Risk	Reasoning
		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Category 61 Liquid Waste Facility	Operation of Liquid Waste Pond and associated infrastructure	Leachate	Groundwater	Seepage of leachate	Adverse impacts to the health and survival of vegetation dependent upon groundwater	None	None	N/A	<p>The new liquid waste pond will be lined with a HDPE liner which will be effectively impervious</p> <p>The Delegated Officer considers the HDPE liner blocks the potential pathway for seepage to impact groundwater, therefore the HDPE liner is sufficient to mitigate risks associated with leachate.</p> <p>The Delegated Officer considers it appropriate to condition construction and maintenance requirements in the licence to ensure that a negligible level of risk is maintained.</p>
		Odour	Residence 400m NE Residence 580m SE	Air / wind dispersion	Amenity	Slight	Unlikely	Low	<p>The Delegated Officer considers the separation distance between the source and receptors as adequate to ensure a low risk rating.</p> <p>In addition, the new liquid waste pond will commence operation only when the old liquid waste pond is taken out of operation, thereby negating cumulative impacts of odour.</p> <p>Odour emissions are sufficiently managed under section 49 of the <i>Environmental Protection Regulations 1987</i>, therefore the Delegated Officer has not included additional conditions on the Licence.</p>

		Overtopping of ponds resulting in waste discharge to land	Vegetation adjacent to discharge area	Direct discharge land and surface waters	Soil contamination inhibiting vegetation growth and survival Surface water contamination	Minor	Possible	Medium	<p>Direct discharge of treated or untreated liquid waste from the ponds could occur during normal operating procedures and in extreme rainfall events.</p> <p>The Licensee has committed to construction of the ponds with capacity to manage inflows from a 1 in 100 year rainfall event, while maintaining a minimum 300mm freeboard.</p>
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Decision

Licence Holder controls within the Application for the construction and operation of the new liquid waste pond are conditioned on the Licence to ensure that leachate and overtopping of ponds are managed.

The Delegated Officer has added works-specific conditions to the Licence to include construction requirements for the new infrastructure and approved design capacities. The Licence Holder is also required to submit construction compliance documentation once the new infrastructure has been installed.

The Delegated Officer considers that the HDPE liner blocks the potential pathway for seepage to impact groundwater, therefore the HDPE liner is sufficient to mitigate risks associated with leachate from the new liquid waste pond. The Delegated Officer considers this reduces the risk of the requested increased throughput for the new liquid waste pond, therefore approves the increased throughput to 700 tonnes per annum for the new liquid waste pond only.

The Delegated Officer has amended conditions 1.2.2 and 2.1.2 to limit the throughput of the old liquid waste pond to 650 tonnes per annum.

The Delegated Officer considers the construction of the new liquid waste pond suitable to prevent discharges to land. Conditions 2.1.1, 2.1.2, 3.2.1 and 5.2.1 relating to discharges to land are associated with the old liquid waste pond and therefore do not apply to, or restrict the operation of, the new liquid waste pond. These conditions have been amended to reflect this.

The Licence Holder also applied for Category 13 crushing activities for the purposes of crushing up to 950 tonnes per annum of inert Type 1 wastes to be stockpiled and utilised as cover material onsite. Although the proposed throughput is below the requirements for licensing, the current licence included item (k) of Table 1.2.3 whereby construction and demolition waste must not be crushed or screened. To enable the Licensee to conduct crushing activities on the premises, the Delegated Officer has removed item (k) within Table 1.2.3. General provisions of the *Environmental Protection Act 1986* apply to crushing activities at the Premises.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 16 May 2018. The Licence Holder advised on 17 May 2018 they have no objections to the proposed amendment and waives the remaining consultation period.

Amendment

- The Prescribed Premises Category within the Licence is amended by deletion of the text shown in strikethrough and insertion of the red text shown in underline below:

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
61	Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	100 tonnes or more per year	<u>700</u> 650 tonnes per annual period
61A	Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.	1000 tonnes or more per year	5 000 tonnes per annual period
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or reuse.	500 tonnes or more per year	5 000 tonnes per annual period
64	Class II or III putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions" published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	500 tonnes or more per year	5 000 tonnes per annual period

- Definitions of the Licence are amended by insertion of the red text shown in underline below:

'old liquid waste pond' means the original liquid waste pond constructed at the Premises;

'new liquid waste pond' means the second liquid waste pond constructed in 2018/19 at the Premises;

- Table 1.2.1 within condition 1.2.2 of the Licence is amended by deletion of the text shown in strikethrough below and insertion of the red text shown in underline below:

Waste type	Quantity limit	Specification
Septage wastes	Combined total of up to <u>700</u> 650 tonnes per annual period for wastes	(i) Liquid waste must only be accepted to the Premises for discharge to at the <u>old</u> liquid waste facility pond at the discharge point depicted in Schedule 1 and labelled <u>E1</u> E1 .
Wastes from grease traps		

Fire debris and wash water	accepted under category 61 for disposal.	(ii) No liquid waste must be accepted after the 31 December 2018 <u>at the old liquid waste pond.</u> (iii) <u>Liquid waste must not be accepted at the new liquid waste pond until the certification required under Condition 1.2.14 has been submitted.</u>
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4. Table 1.2.3 within condition 1.2.4 of the Licence is amended by the deletion of the text shown in strikethrough and insertion of the red text underlined below:

Table 1.2.3: Waste processing		
Waste type	Processes	Process limits
All solid waste types	Receipt, handling, associated storage and/ or disposal of waste by landfilling	(a) No waste must be temporarily stored, treated, processed, disposed of or landfilled within 35 metres from the boundary of the Premises. (b) Disposal of waste by landfilling must only take place within the active landfill area as depicted in Schedule 1. (c) The landfill tipping area must not be exposed with: (i) a vertical face exceeding two metres. (ii) a horizontal face exceeding 30 metres. (d) Waste must be levelled and compacted as soon as practicable after it is discharged in layers not greater than 500 mm. (e) Waste must be placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material. (f) Waste must be landfilled to ensure that the highest point within the active landfill area, including final capping, must not exceed a height of 296 mAHD. (g) Landfill cell 1, including capping must not exceed and final profile slope steeper than 20 degrees. (h) No burning of waste to occur
Putrescible waste	Reprocessing (mulching)	(i) Only green waste to be mulched.
Clean Fill	Receipt, handling, associated storage and disposal of waste by landfilling	None specified
Contaminated soil		(j) Disposed of to landfill the day of acceptance.
Construction and demolition waste		<u>None specified</u> Must not be crushed or screened.
Inert Waste Type 1		None specified
Inert Waste Type 2		(k) Disposed of to landfill the day of acceptance. (l) Tyres must not be landfilled.
Putrescible waste		(m) Disposed of to landfill the day of acceptance.
Inert Waste Type 1	Receipt, handling or storage prior to disposal or	None specified
Inert Waste Type 2		None specified

Hazardous waste	transfer off-Premises	(n) Waste oil must only be stored within the waste oil receptacle or storage drums on a hardstand. (o) Paint must not be landfilled at the Premises in liquid form.
Recyclable waste		None specified
Special Waste Type 1		(p) Must only be stored within the solid waste depot. (q) Must be contained such that ACM and asbestos fibres are fully contained and cannot discharge.

5. Condition 1.2.7 of the Licence is amended by deletion of the text shown in strikethrough and insertion of the red text shown in underline below:

1.2.7 The Licensee must manage all liquid waste facility ponds on the premises such that:

- (a) The ponds do ~~pond does~~ not overtop;
- (b) a minimum freeboard of three-hundred (300) millimetres is maintained;
- (c) stormwater runoff must not enter the pond or cause erosion of the pond embankments; and
- (d) vegetation does not grow in the pond embankment or the pond liner.; ~~and~~
- (e) ~~a cover of no less than 1000 mm of type 1 inert waste or clean fill must be placed over the entire liquid waste facility by 1 March 2019.~~

6. The Licence is amended by insertion of the following Conditions 1.2.12 to 1.2.16:

1.2.12 The Licensee must manage the old liquid waste pond such that a cover of no less than 1000 mm of type 1 inert waste or clean fill must be placed over the entire old liquid waste pond by 1 March 2019.

1.2.13 The Licensee shall carry out the Works for the new liquid waste pond within the Premises in accordance with the requirements set out in Table 1.2.6 below:

Table 1.2.6: Works Infrastructure for the new liquid waste pond		
Item	Works	Specifications
1	Facultative treatment pond	HDPE bunded area that is lined at a minimum thickness of 1.35 mm and free from leaks and defects.
2	Anaerobic treatment pond	HDPE bunded area that is lined at a minimum thickness of 1.35 mm and free from leaks and defects.
3	Drying pad	Bunded area that is Geosynthetic Clay lined (GCL), to achieve a permeability of less than 1×10^{-9} m/s.

1.2.14 Subject to Condition 1.2.13, on completion of the works the Licensee must provide to the CEO engineering certification from a suitably qualified professional confirming each item of infrastructure specified in Table 1.2.6 above has been constructed with no material defects.

1.2.15 The Licensee must not depart from the requirements specified in Table 1.2.6 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 the Licence are still satisfied.

1.2.16 If Condition 1.2.15 applies, then the Licensee must provide the CEO with a list of departures which are certified as complying with Condition 1.2.15 at the same time, and from the same professional, as the certifications required under Condition 1.2.14.

7. Condition 2.1.1. and Table 2.1.1 of the Licence are amended by deletion of the text shown in strikethrough and insertion of the red text shown in underline below:

2.1.1 The Licensee must ensure that liquid waste tankered into the Premises is only discharged to the new liquid waste pond (following submission of the certification required under Condition 2.1.14) or to the emission point in Table 2.1.1 as depicted on the map in Schedule 1.

Table 2.1.1: Emissions to land		
Emission point reference	Description	Source including abatement
<u>Emission point E1 L1</u>	<u>Old liquid waste facility pond</u>	<u>Liquid waste tankered into the Premises</u>

8. Condition 2.1.2 and Table 2.1.2 of the Licence are amended by deletion of the text shown in strikethrough and insertion of the red text shown in underline below:

2.1.2 The Licensee must not cause or allow emissions to land of the parameter listed in Table 2.1.2 greater than the limits listed in Table 2.1.2.

Table 2.1.2: Emission limits to land			
Emission point reference	Parameter	Limit (including units)	Averaging period
Emission point <u>E1 L1</u>	Liquid waste tankered into the Premises (septage wastes, wastes from grease traps and fire debris and wash water)	No more than 650 tonnes per annual period <u>to the old liquid waste pond</u>	Annual period

9. Condition 3.2.1. and Table 3.2.1 of the Licence are amended by deletion of the text shown in strikethrough and insertion of the red text shown in underline below:

3.2.1 The Licensee must undertake the monitoring specified in Table 3.2.1 according to the specifications in Table 3.2.1

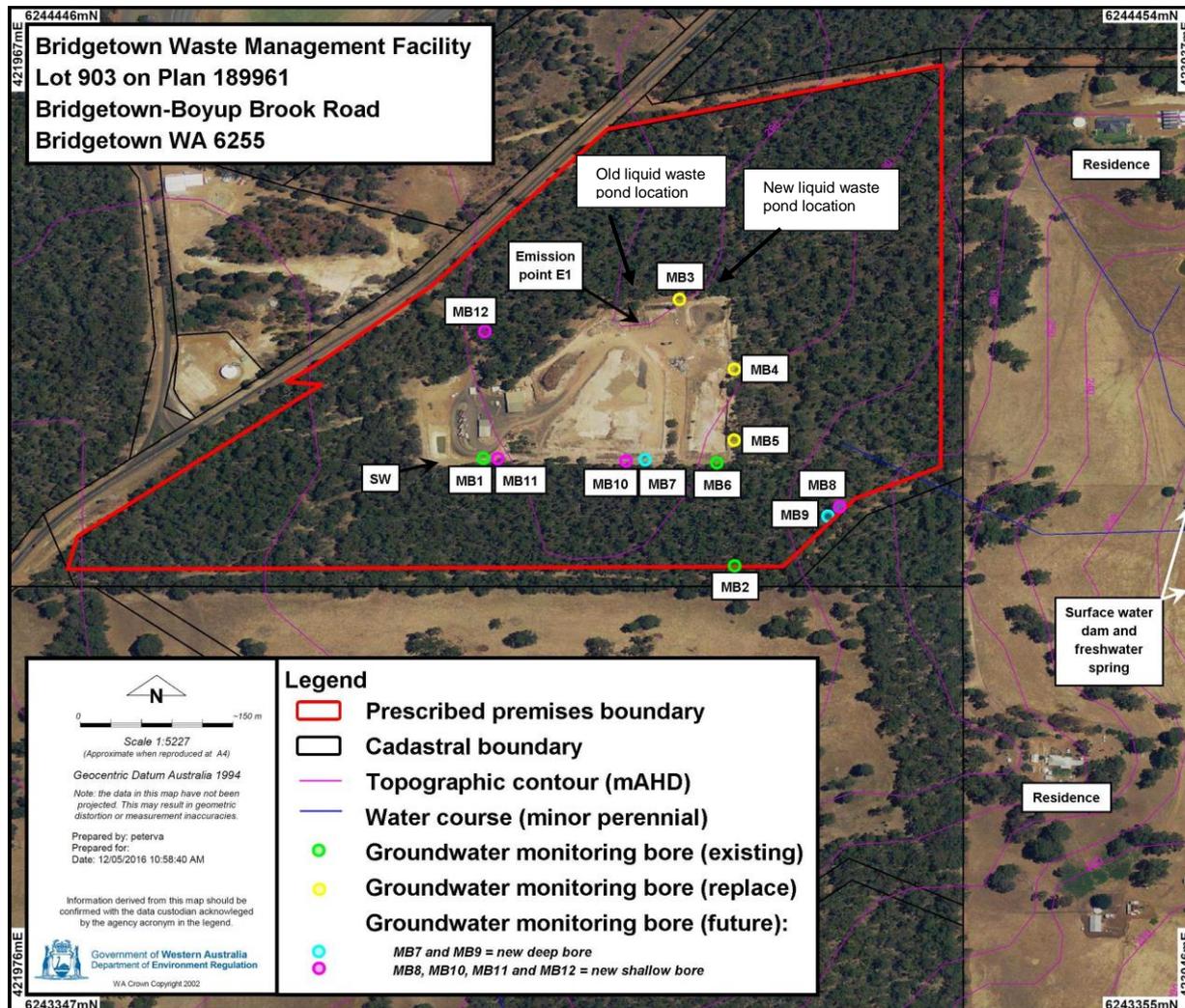
Table 3.2.1: Monitoring of emissions to land				
Emission point reference	Parameter	Units	Averaging period	Frequency
Emission point <u>E1 L1</u>	Cumulative monthly volume of liquid waste discharged <u>to the old liquid waste pond</u> ¹ .	tonnes	Monthly	Continuous

Note 1: To be calculated using controlled waste tracking forms.

10. Table 5.2.1 within condition 5.2.1 of the Licence is amended by insertion of the red text shown in underline below:

Table 5.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form¹
-	Summary of any limit being exceeded and any action taken.	None specified
Condition 3.1.3	Calibration report	
Condition 3.2.1	Summary of all emissions to land data which must include monthly volumes of liquid waste discharged <u>to the old liquid waste pond.</u>	
Condition 3.3.1	Summary of all inputs and outputs monitoring data which must include: (a) data in a table format for the annual period; (b) comment on annual input and output volumetric trends; and (c) the volumetric tonnage conversion rates used for each waste type.	
Condition 3.4.1	Summary of all process monitoring data which must include: (a) data in a table format for the annual period; and (b) comment on annual input and output volumetric trends.	
Condition 3.5.1	Summary of all monitoring data for ambient groundwater quality which must include: (a) data in a table format for the annual period; (b) data in graphical format for trend analysis to include at least the last four years data where available;	
5.1.2	Compliance	AACR
5.1.3	Summary of complaints must include: (a) number and type of complaints received; (b) nature of complaint and complainant details; (c) ambient environmental conditions at the time of complaint; and (d) actions taken to address complaint.	None specified

11. The Licence is amended by deletion of the Premises Map in Schedule 1 and insertion of the following Premises Map in Schedule 1:



Appendix 1: Key documents

	Document title	In text ref	Availability
1	Licence L6818/1997/11 Bridgetown Waste Management Facility	L6818/1997/11	accessed at www.dwer.wa.gov.au
2	DER, July 2015. <i>Guidance Statement: Regulatory principles.</i> Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
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	