



Licence Number L7994/2003/4

Licence Holder Shire of Brookton

File Number: DEC 6572/1~1

Premises
Brookton Wastewater Treatment Plant
Lot 448 on Plan 192654 Robinson Road
BROOKTON WA 6306

Date of Amendment 11/02/2019

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.

Rebecca Kelly

MANAGER WASTE INDUSTRIES

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

1. Definitions and interpretation

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

Table 1: Definitions

Term	Definition
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 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
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
Licence Holder	Shire of Brookton
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>

2. Amendment description

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.

This amendment is the result of a Licence Holder initiated amendment to remove conditions that are not applicable to current Premises operations. The Licence Holder has ceased the re-use of treated wastewater as the Wastewater Treatment Plant does not receive enough water for irrigation of the Brookton Sports Oval Ground and has requested the Department to remove conditions related to these activities.

The Shire of Brookton (Shire) has been operating the Brookton Wastewater Treatment Plant (WWTP) since 1976. It is designed to treat residential and commercial wastewater to a secondary standard. It is located approximately 600 m north of the junction of Brookton Highway and Robinson Road and is immediately adjacent to a tributary of the Avon River South Branch to the east, and paddocks to the north and south. The closest residential receptor is located to the west of the Premises boundary, approximately 100 m away.

The Brookton WWTP is designed to service a population of approximately 300. The nominal throughput for the plant is 120 m³ per day. It is a septic tank effluent disposal system that receives reticulated primary treated influent from septic tanks throughout the town site; each property in Brookton has a septic tank for primary treatment and there are currently 198 tanks connected.

The treated wastewater is stored in the 50 ML Shire re-use water storage dam where it is mixed with stormwater. The estimated annual inflow to the WWTP is approximately 30 ML but the Shire has advised that re-use capacity is heavily constrained by evaporation losses. The treated wastewater volumes available are inadequate to irrigate the Brookton Sports Oval through wastewater re-use. The Shire has decided to stop using the re-use water. The Shire also proposed to cease chemical treatment of effluent as this was also undertaken for the purpose of attaining water quality suitable for reuse. The Shire proposes to pump the entire annual wastewater output (< 25,000kL) directly from the oxidation pond to the 50,000 m³ capacity storage dam.

Below is a summary of the requested amendments to the licence:

- Removal of conditions related to chemical treatment of wastewater and the reuse of treated wastewater, including those requiring monitoring;
- The applicant has requested removal or alternatively less frequent, water depth to sludge monitoring and monitoring of pH levels in wastewater, by stating in the application that due to the low inflows, existing treatment, and large size of the storage dam, sludge levels are usually lower than specified in the licence.

The water quality monitoring specified in Condition 3.7.1 (Table 3.7.1) is not solely related to the re-use of treated wastewater for irrigation, but the discharge from the wastewater treatment plant to the storage dam/pond and the potential for seeps to occur (noting the site is in close proximity to a tributary of the Avon River as noted above). Noting that these process monitoring parameters and frequencies are not only related to the re-use of treated wastewater for irrigation, but for the storage of treated wastewater in the storage dam/pond, the Delegated Officer has determined that they will be retained with sampling frequency reduced.

Additional administrative amendments, including updating, including or deleting definitions have also have been undertaken as part of this amendment, as described in Section 7 below.

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)

3. Amendment history

Table 2 provides the amendment history for L7994/2003/4 since April 2016.

Table 2: Licence amendments

Instrument	Issued	Amendment
L7994/2003/4	29 April 2016	Department initiated amendment to extend licence duration
L7994/2003/4	11/02/2019	Amendment Notice 1 (This amendment) Removal of treated water re-use monitoring and associated conditions

4. Decision

The Delegated Officer has determined that a risk assessment is not required as the level of risk has not increased. The Licence has been amended by the removal, addition or update to definitions to reflect updated terminology and to reflect the changes in Departmental contacts.

Based on the information discussed in Section 2 above, the Delegated Officer has determined that chemical treatment requirements have been removed in Table 1.3.2. No changes have been made to Table 5.3.1 as there is no sampling frequency requirement for water depth to sludge on the existing licence. The option to reuse treated wastewater has been removed within Table 3.6.1 to reflect the Licence Holder's request to cease irrigation activities and the monitoring frequency in Table 3.7.1 has been reduced.

The changes are detailed below in Section 6.

5. Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 11 December 2018. No comments were received from the Licence Holder.

6. Amendment

1. The definitions section of the Licence is amended by the deletion of the text shown in strikethrough and the insertion of the red text shown in underline below:

CEO means Chief Executive Officer.

CEO for the purposes of notification means:

Director General

Department Administering the Environmental Protection Act 1986

Locked Bag 33 Cloisters Square

PERTH WA 6850

info@dwer.wa.gov.au

Condition means a condition to which this Licence is subject under s.62 of the EP Act.

Department means the department established under section 35 of the Public Sector Management Act 1994 and designated as responsible for the administration of Part V, Division 3 of the EP Act.

DWER means Department of Water and Environmental Regulation

~~the EP Act~~ means the Environmental Protection Act 1986;

EP Regulations means the Environmental Protection Regulations 1987 (WA)

~~“Director” means Director, Environmental Regulation Division of the Department of~~

~~Environment and Conservation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the Environmental Protection Act 1986;~~

~~“Licence” means this Licence numbered L7994/2003/4 and issued under the Environmental Protection Act 1986;~~ refers to this document, which evidences the grant of a Licence by the CEO under s.57 of the EP Act, subject to the Conditions.

~~“Premises” means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;~~ refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence.

2. Table 1.3.2 has been amended by the removal of the text shown in strikethrough below:

Table 1.3.2: Waste processing		
Waste type	Process	Process requirements
Sewerage	Biological and chemical treatment.	Secondary treatment (Oxidation pond): <ul style="list-style-type: none"> 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; and pH of wastewater to be maintained at 6.5 to 8.5. Treatment of sewage waste shall be targeted at or below the treatment capacity of 120 m ³ /day.

3. Table 3.6.1 of Condition 3.6.1 has been amended by the removal of the text shown in strikethrough below:

Table 3.6.1: Monitoring of inputs and outputs					
Input/Output	Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
Sewage - Inlet flow	Inflow meter (M1)	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Treated wastewater discharge to storage basins or irrigation.	Outflow meter (L1)				

4. Table 3.7.1 of Condition 3.7.1 has been amended by the removal of the text shown in strikethrough and the insertion of the red text shown in underline below:

Table 3.7.1: Process monitoring						
Emission point reference and location	Process description	Parameter	Target	Units	Averaging Period	Frequency
L1	Discharge from wastewater treatment plant to storage dam/pond	pH ¹	6.5-8.5		Spot sample	Quarterly <u>Six Monthly</u>
		Biochemical Oxygen Demand	<20	mg/L		
		Total Dissolved Solids		mg/L		
		Total Suspended Solids	<30	mg/L		
		Nitrate + Nitrite-nitrogen		mg/L		
		Ammonium-nitrogen		mg/L		
		Total Nitrogen	<30	mg/L		
Total Phosphorus	<10	mg/L				

