



Government of Western Australia
Department of Environment Regulation

Your ref L8036/1993/6
Our ref SWB2063-02
Enquiries Elizabeth Whisson
Phone 9725 4300
Fax 9725 4351
Email Elizabeth.Whisson@der.wa.gov.au

Mr John McQuillan
PO Box 382
COWARAMUP WA 6284

Dear Mr McQuillan

ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED

Premises

Cowaramup Abattoir
Lot 1 and 2 on Diagram 76638 Saunders Road, Cowaramup
Licence Number: L8036/1993/6

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at admin@appealsconvenor.wa.gov.au.

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Elizabeth Whisson on 9725 4300.

Yours sincerely

Ed Schuller
Officer delegated under section 20
of the *Environmental Protection Act 1986*

Friday, 31 January 2014

The Atrium, 168 St Georges Terrace, Perth WA 6000
Phone (08) 6467 5000 Fax (08) 6467 5562
Postal Address: Locked Bag 33, Cloisters Square, Perth WA 6850
www.der.wa.gov.au



Licence

Environmental Protection Act 1986, Part V

Licensee: Western Meat Processors Pty Ltd

Licence: L8036/1993/6

Registered office: 37 King Edward Road
OSBORNE PARK WA 6017

ACN: 114 166 666

Premises address: Cowaramup Abattoir
Saunders Road
COWARAMUP WA 6284
Being Lot 1 and 2 on Diagram 76638 as depicted in Schedule 1.

Issue date: Friday, 31 January 2014

Commencement date: Friday, 07 February 2014

Expiry date: Monday, 06 February 2017

Prescribed Premises Category

Schedule 1 of the Environmental Protection Regulations 1987

Category number	Category description	Category production or design capacity	Premises production or design capacity
15	Abattoir: premises on which animals are slaughtered.	1,000 tonnes or more per year	36,400 tonnes per year
55	Livestock saleyard or holding pen: premises on which live animals are held pending their sale, shipment or slaughter.	10,000 animals or more per year	70,000 animals per year

Conditions of Licence

Subject to this Licence and the conditions set out in the attached pages.

Officer delegated under Section 20
of the *Environmental Protection Act 1986*



Contents

Licence	1
Contents	2
Introduction	2
Licence conditions	5
1 General	5
2 Emissions	7
3 Monitoring	9
4 Improvements	10
5 Information	10
Schedule 1: Maps	12
Schedule 2: Reporting & notification forms	13

Introduction

This Introduction is not part of the Licence conditions.

DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to protect and conserve the state's environment on behalf of the people of Western Australia.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER works with the business owners, community, consultants, industry and other representatives to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitor and audit compliance with works approvals and licence conditions, take enforcement action as appropriate and develop and implement licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the Act. Conditions contained within the licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- Environmental Protection (Unauthorised Discharges) Regulations 2004 – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- Environmental Protection (Controlled Waste) Regulations 2004 - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- Environmental Protection (Noise) Regulations 1997 – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.



You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises. Operating without a licence is an offence under the Act.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

Western Meat Processors Pty Ltd (WMP) operates a meatworks facility (abattoir) supplying beef products to both the international and domestic markets. WMP have been licensed with DEC as a prescribed premises category number 15 (abattoir) since 26 November 1995 (Licence No. 6419). WMP has been operating at the current site since June 2005, following acquisition of the former Margaret River Exotic Meats site. Prior to this, WMP were operating from a site in Busselton.

Cattle are slaughtered and chilled on-site, with carcasses trucked to off-site boning rooms for further processing. The majority of beef processed at WMP is directed to Western Meat Packers in O'Connor; although some carcasses are supplied to domestic butchers and boning rooms.

The main emissions from the abattoir are treated wastewater discharged to land in the form of irrigation of 20 ha of surrounding pastures. The nearest sensitive premises is located 460 metres from the premises. There are no substantial environmental receptors onsite with the nearest watercourse being 740 metres to the south of the premises.

This Licence is the successor to licence L8036/1993/5 and includes minor administrative amendments.

The licences and works approvals issued for the Premises since 28/11/1995 are:

Instrument log		
Instrument	Issued	Description
L6419/1993/1	28/11/1995	New licence application
R435/1993/1	26/11/1996	New registration
W3397/1993/1	04/04/2001	Upgrade – Works Approval
W4191/1993/1	31/01/2005	Upgrade – Works Approval
L8036/1993/1	07/02/2006	New licence application
L8036/1993/2	07/02/2007	Licence re-issue
L8036/1993/3	04/04/2007	Administrative amendment
L8036/1993/4	07/02/2008	Licence re-issue
W4597/2009/1	05/04/2010	Upgrade – Works Approval
L8036/1993/5	12/05/2010	DEC amendment following licence review
L8036/1993/5	03/05/2013	Amendment following upgrade of treatment system (also converted to REFIRE format)
L8036/1993/6	30/01/2014	This licence reissue



Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION



Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'the Act' means the *Environmental Protection Act 1986*;

'annual period' means the inclusive period from 1 January until 31 December in the same year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.10' means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

'code of practice for the storage and handling of dangerous goods' means the Storage and handling of dangerous goods - code of practice, Department of Mines and Petroleum, Government of Western Australia;

'controlled waste' has the definition in Environmental Protection (Controlled Waste) Regulations 2004;

'dangerous goods' has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

'Director' means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under section 20 of the *Environmental Protection Act 1986*;

'Director' for the purpose of correspondence means;

Regional Leader, Industry Regulation, South West Region
Department of Environment Regulation
PO Box 1693
BUNBURY WA 6231
Telephone: (08) 9725 4300
Facsimile: (08) 9725 4351
Email: SWIRAdmin@dec.wa.gov.au;

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;



'fugitive emissions' means all emissions not arising from point sources;

'Licence' means this Licence numbered L8036/1993/6 and issued under the *Environmental Protection Act 1986*;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;

'NATA' means the National Association of Testing Authorities, Australia;

'NATA accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'quarterly' means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December in the same year;

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated; and

'waste' has the meaning defined in the *Environmental Protection Act 1986*.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the current version of that standard.

1.1.4 Any reference to a guideline or code of practice in the Licence means the current version of the guideline or code of practice.

1.2 General conditions

1.2.1 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

1.2.2 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.

1.2.4 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.5 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

Note1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.



1.3 Premises operation

- 1.3.1 The Licensee shall ensure that all wastewaters from abattoir operations including wash down water, by-products wastewater and contaminated run-off are directed to a wastewater treatment system.
- 1.3.2 The Licensee shall maintain an effective wastewater treatment system so as:
- (a) a solids separation system is maintained on the wastewater from the abattoir and lairage prior to discharge to the treatment ponds;
 - (b) leakage or overtopping of the ponds does not occur;
 - (c) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto aerobic pond surfaces or inner pond embankments;
 - (d) trapped overflows shall be maintained between treatment ponds to prevent carry-over of surface floating matter to subsequent ponds; and
 - (e) livestock is restricted from entering the treatment pond areas.
- 1.3.3 The Licensee shall ensure that animal carcasses, spadeable animal material and other abattoir solids are disposed of to a licensed rendering plant or disposal facility.

2 Emissions

2.1 General

- 2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.

2.2-2.4 Point source emissions to air, surface water and groundwater

There are no specified conditions relating to point source emissions to air, surface water or groundwater in this section.

2.5 Emissions to land

- 2.5.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 [and identified on the map of emission points in Schedule 1] it is done so in accordance with the conditions of this licence.

Table 2.5.1: Emissions to land

Emission point reference	Description	Source including abatement
L1	Pipe feeding irrigation areas 1, 2, 3 and 4.	Treated wastewater from final wastewater lagoon.

- 2.5.2 The Licensee shall not cause or allow emissions to land greater than the limits listed in Table 2.5.2.

Table 2.5.2: Emission limits to land

Emission point reference	Parameter	Limit (including units)	Averaging period
L1	Total Nitrogen	300 kg/ha	Annual
	Total Phosphorus	50 kg/ha	
	5-day Biochemical Oxygen Demand (BOD)	30 kg/ha	Daily



2.5.3 The Licensee shall target emissions to land at or below the levels specified in Table 2.5.3.

Table 2.5.3: Emission targets to land

Emission point reference	Parameter	Target	Averaging period
L1	Total Nitrogen	19 mg/l	Spot sample
	Total Phosphorus	3 mg/l	

2.5.4 The Licensee shall ensure that treated wastewater is irrigated such that:

- (a) wastewater is evenly distributed over the irrigation area;
- (b) no soil erosion or ponding of wastewater occurs;
- (c) a healthy vegetation cover is maintained over the designated irrigation area during irrigation times; and
- (d) Irrigation shall not occur during periods of rainfall or onto areas of freestanding water.

2.6 Fugitive emissions

2.6.1 The Licensee shall use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the Premises.

2.7 Odour

There are no specified conditions relating to odour in this section.

2.8 Noise

There are no specified conditions relating to noise in this section.



3 Monitoring

3.1 General monitoring

3.1.1 The licensee shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
- (c) all laboratory samples are submitted to a laboratory with current NATA accreditation for the parameters to be measured.

3.1.2 The Licensee shall ensure that :

- (a) quarterly monitoring is undertaken at least 45 days apart; and
- (b) annual monitoring is undertaken at least 9 months apart.

3.2-3.4 Monitoring of point source emissions to air, surface water and groundwater

There are no specified conditions relating to monitoring of point source emissions to air, surface water and groundwater in this section.

3.5 Monitoring of emissions to land

3.5.1 The Licensee shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of emissions to land			
Emission point reference	Parameter	Units	Frequency
L1	Total volumetric flow to Irrigation Areas 1, 2, 3 and 4	kL/day	Monthly
	pH	pH unit	Quarterly
	Total Nitrogen, Total Phosphorus, 5-day BOD, Total Dissolved Solids and Total Suspended Solids.	mg/L	

3.6 Monitoring of inputs and outputs

There are no specified conditions relating to monitoring of inputs and outputs in this section.

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8 Ambient environmental quality monitoring

There are no specified conditions relating to ambient environmental quality monitoring in this section.

3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.



4 Improvements

There are no specified improvement conditions in this section.

5 Information

5.1 Records

5.1.1 All information and records required by the Licence shall:

- (a) be legible;
- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- (c) except for records listed in 5.1.1(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
- (d) 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.

5.1.2 The Licensee shall ensure that:

- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

5.2.1 The Licensee shall submit to the Director an Annual Environmental Report within 56 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual environmental report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
5.1.3	Compliance	AACR
5.1.4	Complaints summary	None specified
Table 2.5.2	Total Nitrogen, Total Phosphorus, 5-day BOD	LR1
Table 3.5.1	Total volumetric flow, pH, Total Nitrogen, Total Phosphorus, 5-day BOD and Total Suspended Solids	LR1
Table 2.5.3	Target Exceedances	ET1

Note 1: Forms are in Schedule 2



- 5.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:
- (a) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets; and
 - (b) a list of any original monitoring reports submitted to the Licensee from third parties for the annual period and make these reports available on request.

5.3 Notification

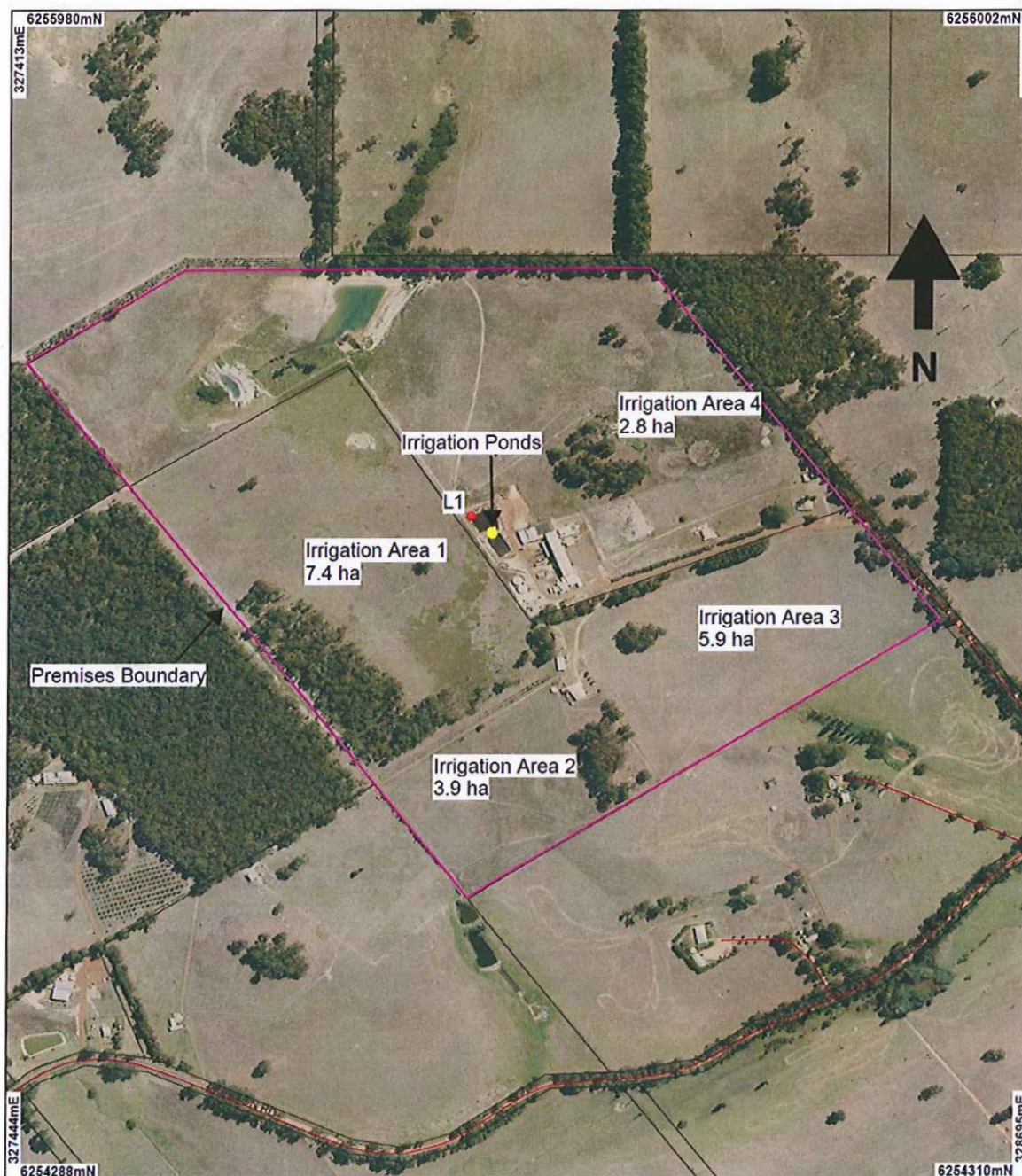
There are no specific notification requirements in this section.



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink line depicts the Premises boundary.





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A

LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the licence complied with within the reporting period? (please tick the appropriate box)

Yes ☐ Please proceed to Section C

No ☐ Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

to	N/A	kL	N/A		
to	N/A	kL	N/A		
to	N/A	kL	N/A		
	N/A		Spot sample		
	N/A	mg/L	Spot sample		
	N/A	mg/L	Spot sample		
	N/A	mg/L	Spot sample		
ds	N/A	mg/L	Spot sample		

P dry

Processors Pty Ltd:

Date:

at Processors Pty Ltd:

Date:

Page 17 of 17

IRLB_TI0672 v2.5



LICENCE NUMBER: L8036/1993/6
LICENCE FILE NUMBER: SWB 2063-02
ISSUE DATE: 30 January 2014
EXPIRY DATE: 06 February 2013

PREMISES DETAILS

LICENSEE AND OCCUPIER

Western Meat Processors Pty Ltd
37 King Edward Road
OSBORNE PARK WA 6017

ACN: 114 166 666

PREMISES

Cowaramup Abattoir
Lot 1 and 2 on Diagram 76638 Saunders Road
COWARAMUP WA 6284

PRESCRIBED PREMISES SUMMARY

Table 1: Prescribed Premises summary

Category number*	Category Description*	Category Production or Design Capacity*	Premises Production or Design Capacity#	Premises Fee Component**
15	Abattoir: premises on which animals are slaughtered.	1 000 tonnes or more per year	36 400 tonnes per year	More than 5 000 but not more than 50 000 tonnes per year
55	Livestock saleyard or holding pen	10,000 animals or more per year	70,000 animals per year	More than 50,000 animals per year

* From Schedule 1 of the Environmental Protection Regulations 1987

From application

** From Schedule 4 of the Environmental Protection Regulations 1987

This Environmental Assessment Report (EAR) has been drafted for the purposes of detailing information on the management and mitigation of emissions and discharges from the prescribed premises. The objective of the EAR is to provide a risk assessment of emissions and discharges, and information on the management of other activities occurring onsite which are not related to the control of emissions and discharges from the prescribed premises activity. This does not restrict the Department of Environment Regulation (DER) to assessing only those emissions and discharges generated from the activities that cause the premises to become prescribed premises.

Basis of Assessment

The Cowaramup Abattoir has been assessed as "prescribed premises" category number 15 and 55, under Schedule 1 of the Environmental Protection Regulations 1987. The categories are described as:



*Category 15 – Abattoir: premises on which animals are slaughtered; and
Category 55 – Livestock saleyard or holding pens.*

Western Meat Processors Pty Ltd (WMP) slaughter and process 300 - 330 tonnes of beef per day (approximately 35 000 tonnes per year). All solid wastes are removed for offsite disposal (no rendering). Wastewater generated during wash down operations is directed to a pond-based treatment system, consisting of one anaerobic and one aerobic pond, connected by a small, lined overflow channel.

WMP upgraded their wastewater treatment ponds with a new pond based wastewater treatment system, consisting of a new anaerobic pond, a new aerated pond and a settling/storage lagoon by May 2013. The ponds are designed to address concerns with the performance of the old treatment system and provide sufficient treatment capacity for an increased in throughput.

1.0 BACKGROUND

1.1 GENERAL COMPANY DESCRIPTION

Western Meat Processors Pty Ltd operates a meatworks facility (abattoir) supplying beef products to both the international and domestic markets. WMP have been licensed with DER as a prescribed premises category number 15 (abattoir) since 26 November 1995 (Licence No. 6419). WMP has been operating at the current site since June 2005, following acquisition of the former Margaret River Exotic Meats site. Prior to this, WMP were operating from a site in Busselton.

Cattle are slaughtered and chilled on site, with carcasses trucked to off-site boning rooms for further processing. The majority of beef processed at WMP is directed to Western Meat Packers in O'Connor; although some carcasses are supplied to domestic butchers and boning rooms.

1.2 LOCATION OF PREMISES

The Cowaramup Abattoir is located at lot 1 and 2 Saunders Road, Cowaramup. The 58 ha site is located approximately 4.5 km North East of Cowaramup, in the South west of Western Australia. The region has a Mediterranean climate characterised by warm, dry summers and cool, wet winters. The area has an average annual rainfall of 977 mm/annum.

From 1995 and prior to WMP taking over the site, Margaret River Exotic Meats operated a multi species processing facility on site; although in 2001, WMP extended the facility through construction of new production area, stock yards, chillers, water tanks and effluent ponds.

Surface water drainage for the site is to the North, towards an ephemeral creek line.

1.3 PROCESS DESCRIPTION

The premises has an anaerobic pond and aerated lagoon. The old anaerobic pond was repaired and lined and is now a treated wastewater storage pond.

The current anaerobic pond has been lined with ELCOSEAL or a geosynthetic clay liner and the aerated lagoon is lined with a 1.5 mm HDPE liner. The sedimentation lagoon has been lined with low permeability compacted clay.

Aeration of the aerated lagoon is via a rotary screw air compressor, delivered to the pond via a fine bubble aeration system. The aerators are suspended approximately 1.5 to 1.75 m below the pond surface to avoid suspension of any sludge from the base of the pond.



Figure 1. Cowaramup abattoir –wastewater pond system.



1.4 REGULATORY CONTEXT

1.4.1 Part IV *Environmental Protection Act 1986*, Environmental Impact Assessment

The Cowaramup Abattoir has not been referred to the Environmental Protection Authority (EPA).

1.4.2 Part V *Environmental Protection Act 1986*, Environmental Management

This operations at the premises have been assessed as a "prescribed premises", category number 15 and 55, under Schedule 1 of the Environmental Protection Regulations 1987.

Other legislation administered by DER relevant to this proposal includes:

- *Environmental Protection Act 1986*;
- Environmental Protection Regulations 1987;
- Environmental Protection (Noise) Regulations 1997;
- Environmental Protection (Unauthorised Discharges) Regulations 2004;
- Environmental Protection (Clearing of Native Vegetation) Regulations 2004.

1.4.3 *Rights in Water Irrigation Act 1914*

If the proponent is to use groundwater in the abattoir, they require a Groundwater Licence (GWL) under the *Rights in Water Irrigation Act 1914*. The Department of Water (DoW) advised the DER (then DEC) on 19 October 2009 that the proponent has submitted an application for licence, but at that time no licence had been issued. The proponent then provided correspondence from DoW which indicates that a licence is not required, where water is taken from a spring on private land.

1.4.4 Local Government Authority

The premises is located within the Shire of Augusta Margaret River, and is registered as a "Noxious Industry" pursuant to the *Health Act 1911*.

2.0 STAKEHOLDER AND COMMUNITY CONSULTATION

SUBMISSIONS RECEIVED DURING 21 DAY PUBLIC COMMENT PERIOD

The Application for Works Approval details for this proposal was advertised in the West Australian newspaper on Monday, 9 December 2013 as a means of advising stakeholders and to seek public comments. No submissions were received in response to advertising.

3.0 EMISSIONS AND DISCHARGES RISK ASSESSMENT

DER considers that conditions should focus on regulating emissions and discharges of significance. Where appropriate, emissions and discharges which are not significant should be managed and regulated by other legislative tools or management mechanisms.

The following section assesses the environmental risk of potential emissions from the project. In order to determine the site's appropriate environmental regulation, an emissions and discharges risk assessment was conducted of the facility using the environmental risk matrix outlined in Appendix A. The results of this are summarised in Table 2.



Table 2: Risk assessment and regulatory response summary table.

Risk factor	Significance of emissions	Socio-Political Context of Each Regulated Emission	Risk Assessment	DEC Regulation (EP Act - Part V)	Other management (legislation, tools, agencies)
Air emissions	<u>Operation Phase:</u> N/A.	N/A	N/A	LIC - N/A	General provisions of the <i>Environmental Protection Act 1986</i>
Dust emissions	<u>Operation Phase:</u> 1. The main sources of dust from operation of the site are likely to be traffic movement and animal movement. Dust emissions have been minimised through bitumising of the main access and the majority of hard areas around the site. The livestock holding areas have been concreted.	(No) No submissions received. Dust is considered unlikely to present a nuisance to sensitive premises given the distances.	(D) Other management mechanisms	LIC – No conditions	General provisions of the <i>Environmental Protection Act 1986</i>
Odour emissions	<u>Operation Phase:</u> 1. Minimal complaints received by the proponent over the past 4 years. Odour emissions associated with the commissioning of a new treatment system have been addressed in the construction section, which odour during operation unlikely to change significantly over existing odour emissions.	(No) No submissions received. Odour is considered unlikely to present a nuisance to sensitive premises given the distances.	(D) Other management mechanisms	LIC – No conditions	General provisions of the <i>Environmental Protection Act 1986</i>
Noise emissions	<u>Operation Phase:</u> 1. Noise is unlikely to change significantly over current operations aside from the installation of the screw type aerator. Approximate calculations undertaken by the proponent indicate compliance with the assigned levels at about 100m from the equipment. The DEC has received no complaints of recent regarding noise emissions from the site.	(No) No submissions received. Noise is considered unlikely to present a nuisance to sensitive premises given the distances.	(D) Other management mechanisms	LIC – No conditions	EP (Noise) Regulations 1997 General provisions of the <i>Environmental Protection Act 1986</i>



Light emissions	<p><u>Operation Phase:</u> 1. Some load out operations occur between 7:30pm and 5am Sunday to Thursday which has the potential to result in light emissions. The proponent has implemented actions such as inward facing lights to minimise potential impacts associated with these lights. DEC has received no complaints of recent regarding light emissions from the site. This will not change as a result of the proposed works.</p>	(No) No submissions received. Light is considered unlikely to present a nuisance to sensitive premises given the distances.	(D) Other management mechanisms	LIC – No conditions	General provisions of the <i>Environmental Protection Act 1986</i>
Discharges to water	<p><u>Operation Phase:</u> N/A</p>	(No). No submissions received. Discharges to water are unlikely to present an issue to sensitive premises, as there is no hydrological connection.	(D) Other management mechanisms	LIC – No conditions	EP (Unauthorised Discharges) Regulations 2004
Discharges to land	<p><u>Operation Phase:</u> 1. The anaerobic pond is lined to with ELCOSEAL X2000 or an equivalent geo-synthetic clay liner to meet a permeability of 2×10^{-11}, which exceeds the required 1×10^{-9}.</p> <p>The aerated lagoon is lined with a 1.5mm HDPE liner consistent with the WQPN.</p> <p>The sedimentation dam is lined with 300mm compacted clay, providing a low permeability liner of 1×10^{-9} m/s which is consistent with the required liner.</p> <p>The existing anaerobic pond has been repaired to meet the 1×10^{-9} permeability required. The ponds have been sized based on the peak monthly rainfall recorded during the 10 year period, 1999 to 2008.</p> <p>Aeration of the aerobic pond is undertaken using a rotary screw compressor with air delivered through a fine bubble aeration system. The aerators are located approximately 1.5 to 1.75 m below the pond surface so as to not suspend any sludge from the base of the pond.</p> <p>Irrigation of treated wastewater</p>	(No). No submissions received. Discharges to land is unlikely to present an issue to sensitive premises, as there is no hydrological connection.	(D) Licence conditions	LIC – No conditions	EP (Unauthorised Discharges) Regulations 2004



	is being undertaken, with the proponent indicating that the appropriate Nitrogen, Phosphorus and BOD loading rates will be met (300kg/ha/yr TN, 50kg/ha/yr TP and 30kg/ha/day BOD based on land resource mapping). The proponent has indicated that based on the hydraulic load, an additional irrigation area (already on the site but not currently used) is required. No irrigation will occur within 50m of premises boundaries.				
Solid / liquid wastes	<p><u>Operation Phase:</u> 1. Solid and liquid waste from the abattoir is removed for treatment or disposal (ie rendering). Non-process wastes (office waste) is removed for disposal at a licensed facility.</p> <p>Blood will be collected in the existing storage tanks, with an additional 4kl tank to be added should the existing 5kl tank be insufficient to manage blood collection.</p> <p>Sludge from the treatment system is periodically removed using a sucker truck for off-site disposal.</p> <p>Paunch is collected and removed by a controlled waste carrier on a daily basis. The collection of this will be increased to twice daily if required.</p> <p>Manure is collected and removed from site for disposal as required.</p>	<p>(No). No submissions received. Solid/Liquid Waste is unlikely to present an issue to sensitive premises if management practices are followed.</p>	(D) Licence conditions	LIC – no conditions	<p>EP (Unauthorised Discharges) Regulations 2004</p> <p>EP (Controlled Waste) Regulations 2004</p>
Hydrocarbon/ chemical storage	<p><u>Operation Phase:</u> 1. No hydrocarbons are stored on-site. Chemicals used in the process (ie cleaning) are small in volume and stored in a bunded storage area.</p>	<p>(No). No submissions received.</p>	(D) Other management mechanisms	LIC – No conditions	Managed under the Dangerous Goods storage licence and relevant legislation (DMP)
Native vegetation clearing	N/A/ Clearing is not required for this proposal.	N/A	N/A	N/A	EP (Clearing of Native Vegetation) Regulations 2004



Contaminated site identification	N/A. The site is not located on a contaminated site and is not likely to be reported to DEC under the <i>Contaminated Sites Act 2003</i> .	N/A	N/A	N/A	Contaminated Sites Branch (DEC)
----------------------------------	---	-----	-----	-----	---------------------------------

4.0 GENERAL SUMMARY AND COMMENTS

This EAR was originally written for the upgrade of the wastewater treatment system at the Western Meat Processors' abattoir, located on the outskirts of Cowaramup. It has had administrative amendments made for the current licence reissue.

Emissions and discharges during operation of the wastewater treatment system are primarily associated with liquid wastes. The primary environmental issue associated with such wastes relates to the impacts on surface and groundwater quality, and in exceptional case, local amenity (odour).

The environmental risk of emissions or discharges during construction of the wastewater treatment system has been assessed as insignificant, and can be managed through other provisions of the *Environmental Protection Act 1986*, or through other regulatory mechanisms.

The environmental risk of emissions or discharges during subsequent operation of the wastewater treatment system requires management through a set of standard licence conditions, so as to avoid pollution or environmental harm occurring.



APPENDIX A: EMISSIONS AND DISCHARGES RISK ASSESSMENT MATRIX

Note: These matrix are taken from the DER Officer's Guide to Emissions and Discharges Risk Assessment (2006).

Table 3: Measures of Significance of Emissions

Emissions as a percentage of the relevant emission or ambient standard		Worst Case Operating Conditions (95 th Percentile)			
		>100%	50 – 100%	20 – 50%	<20%*
Normal Operating Conditions (50 th Percentile)	>100%	5	N/A	N/A	N/A
	50 – 100%	4	3	N/A	N/A
	20 – 50%	4	3	2	N/A
	<20%*	3	3	2	1

*For reliable technology, this figure could increase to 30%

Table 4: Socio-Political Context of Each Regulated Emission

		Relative proximity of the interested party with regards to the emission				
		Immediately Adjacent	Adjacent	Nearby	Distant	Isolated
Level of Community Interest or Concern*	5	High	High	Medium High	Medium	Low
	4	High	High	Medium High	Medium	Low
	3	Medium High	Medium High	Medium	Low	No
	2	Low	Low	Low	Low	No
	1	No	No	No	No	No

Note: These examples are not exclusive and professional judgement is needed to evaluate each specific case

*This is determined by DER using the *Officer's Guide to Emissions and Discharges Risk Assessment* (2006).

Table 5: Emissions Risk Reduction Matrix

		Significance of Emissions				
		5	4	3	2	1
Socio-Political Context	High	A	A	B	C	D
	Medium High	A	A	B	C	D
	Medium	A	B	B	D	E
	Low	A	B	C	D	E
	No	B	C	D	E	E

PRIORITY MATRIX ACTION DESCRIPTORS

A = Do not allow (fix)

B = licence condition (setting limits + EMPs - short timeframes)(setting targets optional)

C = licence condition (setting targets + EMPs - longer timeframes)

D= EIPs, other management mechanisms/licence conditions (monitoring/reporting)/other regulatory tools

E = No regulation, other management mechanisms

1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It is a very important document, as it contains the President's annual message to Congress. The letter is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

2. The second part of the document is a report from the Secretary of the Treasury, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

3. The third part of the document is a report from the Secretary of the Interior, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

4. The fourth part of the document is a report from the Secretary of the War, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

5. The fifth part of the document is a report from the Secretary of the Navy, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

6. The sixth part of the document is a report from the Secretary of the State, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

7. The seventh part of the document is a report from the Secretary of the War, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.

8. The eighth part of the document is a report from the Secretary of the Navy, dated January 3, 1862. It is a very important document, as it contains the Secretary's annual report to Congress. The report is written in a formal, dignified style, and it is one of the most important documents in the history of the United States.