



Government of Western Australia
Department of Environment and Conservation

Your ref: L7316/1996/10
Our ref: DEC9037
Enquiries: Cassie Bell
Phone: 9842 4566
Fax: 9841 7105
Email: Cassie.bell@dec.wa.gov.au

The Manager
C/- Narrikup Export Abattoir
Fletcher International Exports Pty Ltd
PO Box 680
Albany WA 6331

Dear Mr Cross

Environmental Protection Act 1986

Licence L7316/1996/10

Occupier: Fletcher International Exports Pty Ltd

Premises: Narrikup Export Abattoir

You are hereby advised that a licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment and Conservation will advertise the issuing of this licence in the public notices section of The West Australian newspaper.

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

In accordance with section 102(1)(c) of the Act, you are afforded 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 make an appeal or check if any appeals have been made, contact the Office of the Appeals Convenor on 6467 5190. Please direct all other inquiries to the Licensing Officer above.

Yours faithfully,

Carissa Aitken
A/ Manager, Works Approval & Emissions Licensing Section

15 September 2011

enc: Environmental Protection Act 1986 Licence L7316/1996/10
copy to: Local Government Authority: Shire of Plantagenet

DIRECTOR GENERAL AND ENVIRONMENTAL SERVICES DIVISIONS: The Atrium, 168 St Georges Terrace, Perth, Western Australia 6000
Phone: (08) 6467 5000 Fax: (08) 6467 5562

PARKS AND CONSERVATION SERVICES DIVISIONS: Executive: Corner of Australia II Drive and Hackett Drive, Crawley, Western Australia 6009
Phone: (08) 9442 0300 Fax: (08) 9386 1578 Operations: 17 Dick Perry Avenue, Technology Park, Kensington, Western Australia 6151

Phone: (08) 9219 8000 Fax: (08) 9334 0498

POSTAL ADDRESS FOR ALL DIVISIONS: Locked Bag 104, Bentley Delivery Centre, Western Australia 6983

www.dec.wa.gov.au
wa.gov.au

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LICENCE FOR PRESCRIBED PREMISES

Environmental Protection Act 1986

LICENCE NUMBER: L7316/1996/10

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LICENSEE

Fletcher International Exports Pty Ltd
43 Auburn Street
Moree NSW 2400
ACN: 003 213 652

PREMISES

Narrikup Export Abattoir
Lot 5216 on Plan 205738 and Lot 4 on Diagram 69395 Settlement Road
Narrikup WA 6326
(as depicted in Attachment 1)

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	More than 50,000 tonnes per year
16	Rendering operations: premises on which substances from animal material are processed or extracted.	100 tonnes or more per year	More than 10 000 tonnes per year
67A	Compost manufacturing and soil blending: premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost or blended soils.	1 000 tonnes or more per year	More than 500 but not more than 5 000 tonnes per year
83	Fellmongering: premises on which animal skins or hides are dried, cured or stored.	1 000 skins or hides or more per year	1 000 skins or hides or more per year

CONDITIONS OF LICENCE

Subject to the conditions of licence set out in the attached pages.

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

ISSUE DATE

Thursday, 15th September 2011

COMMENCEMENT DATE:

Tuesday, 4th October 2011

EXPIRY DATE:

Monday, 3rd October 2016

CONDITIONS OF LICENCE

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DEFINITIONS

"AHD" means Australian Height Datum;

"APHA-AWWA-WEF" means American Public Health Association; American Water Works Association; Water Environment Federation;

"Australian Standard 5667" means the most recent version and relevant part of AS/NZS 5667;

"composting" means the controlled biological decomposition or treatment of an organic part of a material;

"DAF" means dissolved air flotation;

"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*;

"Director" or "Department of Environment and Conservation" for the purpose of correspondence means-

Regional Leader – Industry Regulation,
C/- South Coast Regional Office
Department of Environment and Conservation
120 Albany Highway Telephone: 9842 4500
ALBANY WA 6331 Facsimile: 9841 7105;

"leachate" means water that has been allowed to contact compost or other organic material;

"m³" means cubic metres;

"mg/L" means milligrams per litre;

"NATA" means the National Association of Testing Authorities;

"premises" means Lot 5216 on Plan 205738 and Lot 4 on Diagram 69395, Settlement Road, Narrikup as depicted in Attachment 1;

"PRI" means phosphorus retention index;

"renderable material" means blood, bone, fat, offal, condemned carcasses and alike; and

"solid waste" means waste that:

- (a) has an angle of repose of greater than 5 degrees;
- (b) does not contain, or is not comprised of, any free liquids;

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- (c) does not contain, or is not comprised of, any liquids that are capable of being released when the waste is transported;
- (d) does not become free flowing at or below 60 degrees Celsius or when it is transported; and
- (e) is generally capable of being moved by a spade at normal temperatures (i.e. is spadeable).

"SYSDAF" see DAF.

EMISSION TO AIR

DUST - GENERAL REQUIREMENT

1. The licensee shall ensure that no visible dust crosses the boundary of the premises.

ODOUR - GENERAL REQUIREMENT

2. The licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

RENDERING PLANT - GASES TREATMENT SYSTEM

- 3(a) The licensee shall operate the rendering facility such that the gas treatment system is operational whenever the cooker system is in use.
- 3(b) The licensee shall direct all condensable gases from the cooker system to the condensers then through the afterburner for incineration prior to being released to the atmosphere.
- 3(c) The licensee shall operate the after-burner such that a minimum residence time of 0.5 seconds at a minimum temperature of 760 degrees Celsius (or 0.25 seconds at a minimum temperature of 860 degrees Celsius) are maintained.
- 3(d) The licensee shall maintain an alarm system (eg flashing light over the operator's control panel) to signal when the temperature in the after-burner drops below 760 degrees Celsius. In the event that the alarm is signalled, the licensee shall cease loading of the after-burner until an after-burner temperature of 760 degrees Celsius (and a residence time of 0.5 seconds) or greater is reached.
- 3(e) The licensee shall maintain a thermocouple within the afterburner (not in direct contact with the flame) to measure the temperature in either the after-burner chamber or in the exhaust duct leading from the after-burner. The thermocouple shall be connected to a direct-reading chart recorder or other approved device, which shall be operated when the cooker is in operation. The charts from this chart

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recorder shall be kept on the premises and shall be made available to an Inspector, on request.

RENDERING PLANT - CONVEYORS AND HOPPERS:

4. The licensee shall ensure all presses, blood coagulation and equipment associated with cooking or drying are enclosed, to enable the enclosed space to be exhausted to the after-burner.

RENDERING PLANT - BUILDING

5. The licensee shall ensure the rendering plant building is enclosed and all external doors remain closed during the operation of the rendering equipment.

WASTE MATERIAL PROCESSING REQUIREMENT

6. The licensee shall ensure that all animal waste material received for rendering is processed within 24 hours from slaughter of the animal. If this cannot be achieved, the licensee shall comply with the conditions 7(a), 7(b) and 7(c).

PLANT BREAKDOWN - CONTINGENCY PLAN

- 7(a) In the event of a plant breakdown that prevents rendering from continuing, the licensee shall either direct waste material to a landfill site licensed to accept this type of waste or direct the waste material to a licensed rendering facility.
- 7(b) In the event of failures of longer than 24 hours, the licensee shall cease slaughtering onsite until the rendering plant is fully operational.
- 7(c) The licensee shall immediately notify the Director in the event of a plant breakdown or failure, prior to the implementation of the contingency plans specified in condition 7(a) and 7(b) of this licence.

DISCHARGE TO LAND

PRETREATMENT

8. The licensee shall direct all contaminated or potentially contaminated water resulting from the operation of the abattoir, rendering (including the gas treatment system), compost waste storage areas and lairage run-off through the following pre-treatment devices, prior to discharge to the treatment system;
 - (i) a contra shear screen with a maximum aperture size 0.5 millimetres; and
 - (ii) a SYSDAF unit.

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LEACHATE AND STORMWATER MANAGEMENT

- 9(a) The licensee shall store and process all organic material (including compost) on an approved hardstand area with adequate bunding to contain leachate.
- 9(b) The licensee shall direct any leachate or rainfall runoff generated from the hardstand referred to in condition 9(a) to the wastewater treatment system.
- 9(c) The licensee shall divert uncontaminated stormwater away from the composting and organic storage areas.

SHEEPSKIN SALTING, CURING AND PICKLING

- 10(a) The licensee shall store solid chemical substances (such as salt for sheepskin salting) in weatherproof storage on hardstand flooring pending process use.
- 10(b) The licensee shall undertake all sheepskin salting, curing and pickling within a concrete floored building, which features either bunded opening on the doors, or a sloped floor to prevent loss of salt or pickling liquor outside the building.
- 10(c) The licensee shall direct wastewater from the sheepskin curing and pickling area to the wastewater treatment system.
- 10(d) The licensee shall direct runoff and washings from the sheepskin salting area to impervious concrete tanks, pending liquid waste disposal offsite by a liquid waste contractor approved by the Director. Records of offsite disposal shall be made available to an inspector, on request.

MANAGEMENT OF WASTEWATER TREATMENT PONDS

- 11. The licensee shall manage and operate the wastewater treatment ponds in a manner such that:
 - (i) all uncontaminated stormwater is diverted away from the ponds with exception of stormwater from the northwest portion of the main building, to minimise the threat of erosion of pond embankments or flooding;
 - (ii) there is no discernible seepage loss from the outer pond embankments;
 - (iii) overtopping of the ponds does not occur;
 - (iv) aerobic and maturation pond surfaces are kept clear of floating matter, debris and algal mats; and
 - (v) vegetation on inner embankments of the ponds shall not interfere with the integrity of pond walls or prevent adequate water surface aeration.

WASTEWATER IRRIGATION

- 12. The licensee shall dispose of treated wastewater from the maturation dam to the irrigation areas 1, 2A, 2B, 3A, 3B and 4 as depicted in Attachment 1.

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MANAGEMENT OF WASTEWATER IRRIGATION AREAS

13. The licensee shall dispose of all treated wastewaters by irrigation such that:
- (i) wastewater is evenly distributed over the individual irrigation paddocks, to prevent localised concentration of nutrients;
 - (ii) no soil erosion or ponding of wastewaters occurs;
 - (iii) wastewater is only applied to areas with a healthy vegetation cover;
 - (iv) there is no direct runoff, spray drift or discharge beyond the boundaries of the premises or onto remnant vegetation;
 - (v) irrigation shall not occur within 50 metres of any defined wetland, watercourse or drain (including Mill Brook); and
 - (vi) irrigation shall not occur during periods of rainfall or onto flooded areas.

NUTRIENT LOADING RATES

- 14(a) The licensee shall manage the application of wastewater and solid matter (fertiliser and compost) to the irrigation areas to ensure that the following nutrient loading rates are not exceeded;
- (i) Total Nitrogen 280 kilogram per hectare per year;
 - (ii) Total Phosphorus 30 kilogram per hectare per year; and
 - (iii) Biochemical Oxygen Demand 30 kilograms per hectare per day.
- 14(b) The licensee shall provide calculations to show the nutrient loading rates for **each** irrigation area used during the reporting period. The results of these and the calculations used to calculate these loadings shall be provided in the next Annual Environmental Report.

WASTE MINIMISATION / REMOVAL / STORAGE

SOLID WASTE MANAGEMENT

15. The licensee shall discharge process wastes generated by the abattoir, rendering facility and lairage yards in the following ways:
- (i) blood, offal, trimmings, bones and condemned carcasses generated at the abattoir to be processed at the onsite rendering facility, or disposed offsite to an approved landfill site;
 - (ii) solid waste suitable for composting (including manure, paunch contents, screening solids, SYSDAF cake, waste meat meal and solid organic waste) to be directed to the onsite composting area or transported to an offsite disposal or reuse facility; and
 - (iii) waste sheepskins and other solid waste (such as canteen/office waste) disposed offsite to an approved landfill site.

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SALT WASTE MANAGEMENT

16. The licensee shall store all salt waste in a concrete bunded area or impervious container prior to offsite removal.

MONITORING CONDITIONS

MONITORING REQUIREMENT - SOIL QUALITY

17. The licensee shall collect and analyse representative soil samples from the locations in Column 1 of Table 1, at the frequency in Column 3 of Table 1, for the parameters listed in Column 2 of Table 1.

Table 1: Soil Monitoring Program

Column 1	Column 2	Column 3
Locations to be sampled	Parameters to be analysed	Frequency
Four representative locations within irrigation areas 1, 2A, 2B, 3A, 3B and 4 (as depicted in Attachment 1) at the following depths: surface, 30cm and 45cm below the surface	pH; Salinity; ammoniacal nitrogen; nitrate, nitrogen; orthophosphate phosphorus; and phosphorus retention index (PRI).	Six monthly; in April and October

With the exception of pH, salinity and PRI all measurements are to be reported in mg/kg. The results shall be presented in the Annual Environmental Report in a tabular format.

WATER MONITORING AND REPORTING

- 18(a) The licensee shall maintain a suitable metering device to measure the **cumulative** volume (in m³ per day) of wastewater discharged to the pond system. Monthly records of this discharge shall be recorded and reported in a tabular form, in the Annual Environmental Report.
- 18(b) The licensee shall maintain suitable metering devices to measure the volume (in m³ per day) of wastewater discharged from the pond system to **each** irrigation area. Monthly records of these discharges and the irrigation areas to which the wastewater is applied, shall be recorded and reported in a tabular form, in the Annual Environmental Report.
- 18(c) The licensee shall maintain suitable metering devices to measure the **cumulative** volume (in m³ per day) of groundwater and surface water used at the site. These records shall be recorded monthly and reported in a tabular form in the annual report.
- 18(d) The licensee shall record flow measurements (m³) of Mill Brook on a Monthly basis. These records shall be reported in a tabular form in the Annual Environmental Report.

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- 18(e) The licensee shall collect and analyse representative water samples from the sampling locations in Column 1 of Table 2, at the frequency in Column 3 of Table 2, for the parameters listed in Column 2 of Table 2.

Table 2: Water Monitoring Program

Column 1	Column 2	Column 3
Sampling Location	Parameters to be analysed	Sampling Frequency
Raw wastewater, DAF Outflow, subsurface flow wetland and maturation pond	pH; biochemical oxygen demand; total suspended solids; total nitrogen; total phosphorus; electrical conductivity; and oil & grease.	Monthly
Mill Brook where the waterway enters and exits the site.	pH; total dissolved solids; total nitrogen; total phosphorus; BOD	Monthly (when flowing)
Monitoring bores MW2, MW4A, MW4B, MW5A, MW5B, MW9, MW10A, MW10B, MW11A, MW11B, MW12A, MW12B, MW14, MW15A, MW15B, MW16A, MW16B and MW20 as shown in attachment 1	pH; total dissolved solids; total nitrogen; total phosphorus; electrical conductivity; and standing water level (SWL).	Three-monthly; in April, July, October and January

With the exception of pH, and SWL (metres AHD), all measurement are to be reported in mg/L. The results shall be presented in the next Annual Environmental Report.

- 18(f) The licensee shall collect and preserve all water samples in accordance with Australian Standard 5667.
- 18(g) The licensee shall ensure that all samples specified in condition 18(e) are analysed in a laboratory with NATA accreditation in accordance with the current "Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF".

REPORTING CONDITIONS

19. The licensee shall provide the Director with an Annual Environmental Report for the period **1 February** to the **31 January** of each year of the licence. The report shall be provided by the **30 April** each year. The report shall contain, but not necessarily be limited to:
- (i) monitoring data or other collected data required by any condition of this licence;
 - (ii) an explanation of the monitoring results with respect to the environmental impacts of the project;

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 COMMENCEMENT DATE: Tuesday, 4th October 2011
 EXPIRY DATE: Monday, 3rd October 2016

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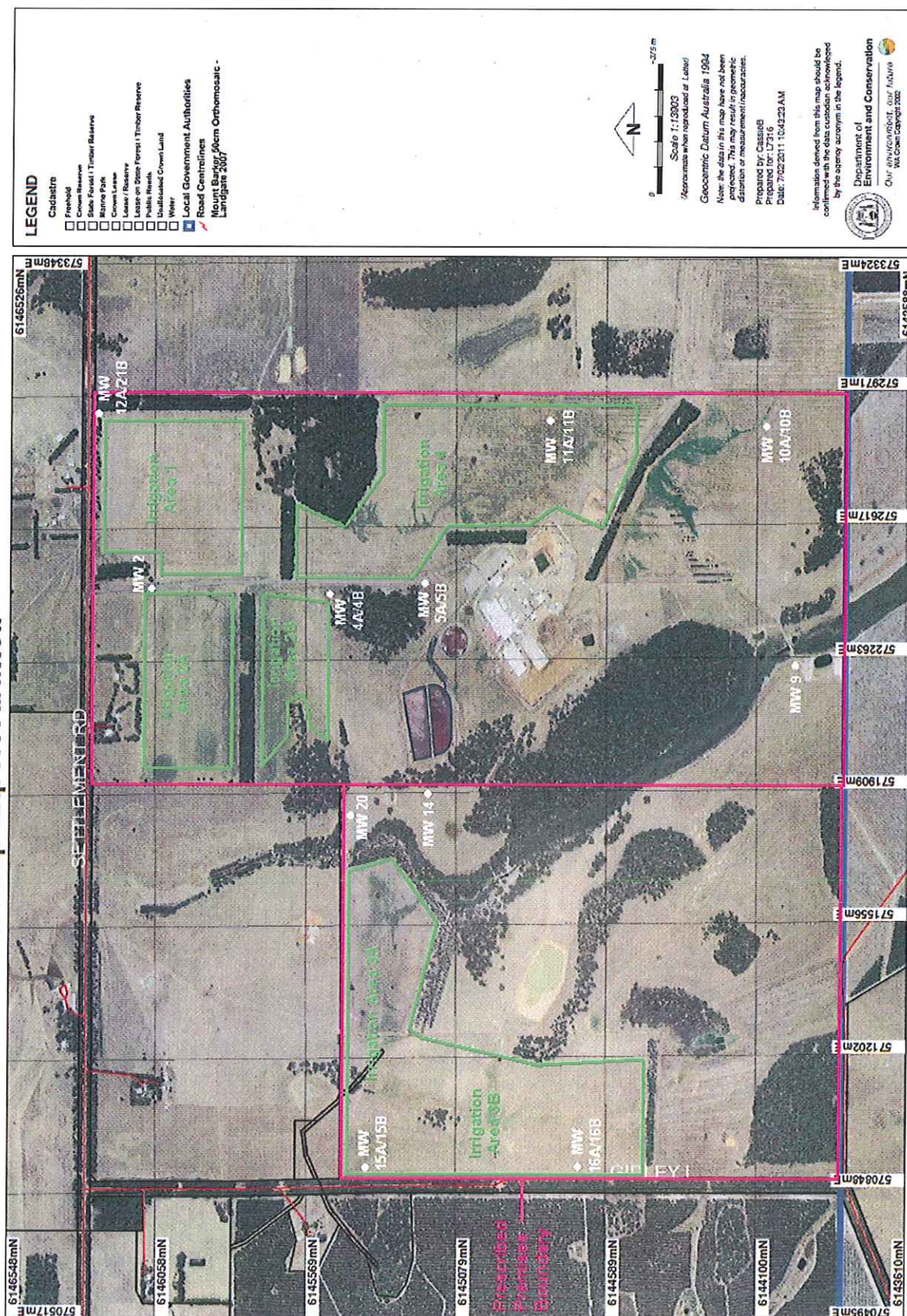
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- (iii) a trend comparison of groundwater monitoring results with the groundwater results since the beginning of the operation;
 - (iv) the number and type of environmental complaints received, including address, nature of complaint (where appropriate cross referenced with prevailing wind directions) and action taken;
 - (v) any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution;
 - (vi) detailed information on the nutrient inputs and outputs (plant uptake requirements and production volumes) from cropping, including the nutrient loading rates for each area and each crop type. This information to be provided in a tabular format; and
 - (vii) plans showing the location and extent of the irrigated areas (condition 12), the soil sampling locations (condition 17) and the monitoring bores sampled (condition 18(e)), for the reporting period.
20. The licensee shall by 30 April in each year, provide to the Director an Annual Audit Compliance Report in the form in Attachment 2 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning 1 February the previous year and ending on 31 January in that year.

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Narrikup Export Abattoir



ATTACHMENT 2

LICENCE NUMBER: L7316/1996/10

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ANNUAL AUDIT COMPLIANCE REPORT

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 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 initialed by the person(s) who signs Section C of this annual audit compliance report

INITIAL: _____

ISSUE DATE Thursday, 15th September 2011
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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 DEC?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DEC verbally Date _____ <input type="checkbox"/> Reported to DEC in writing Date _____	<input type="checkbox"/> No
d) Has DEC taken, or finalised any action in relation to the non compliance?	
e) Summary of particulars of 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 initialed by the person(s) who signs Section C of this annual audit compliance report
 INITIAL: _____

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COMMENCEMENT DATE:
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ATTACHMENT 2

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SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report 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 Annual Audit Compliance Report 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 and Conservation 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 and Conservation.
A corporation	<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 and Conservation.
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 and Conservation.
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: ____/____/____

SEAL (if signing under seal)

ISSUE DATE
COMMENCEMENT DATE:
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