



Licence

Environmental Protection Act 1986, Part V

Licensee: **Mundella Foods Pty Ltd**

Licence: **L8015/2003/3**

Registered office: 8 Interchange Drive
EASTERN CREEK NSW 2766

ACN: 055 862 774

Premises address: Mundella Foods
Lot 2 on Plan 51860 (Randell Road), Lot 51 on Plan 226010, Lot 52 on Plan 226115, Lot 115 on Plan 226115, Lot 123 on Diagram 5045 and Lot 511 on Plan 249485
MARDELLA WA 6125
as depicted in Schedule 1

Issue date: Thursday, 9 July 2015

Commencement date: Wednesday, 15 July 2015

Expiry date: Tuesday, 14 July 2020

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
17	Milk processing: premises on ; which – a) Milk is separated or evaporated (other than a farm); or b) Evaporated or condensed milk, butter, ice cream, cheese or any other dairy product is manufactured, and from which liquid waste is or is to be discharged onto land or into waters.	100 tonnes or more per year	4,500 tonnes per year

Conditions

This Licence is subject to the conditions set out in the attached pages.

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



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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 advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

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 monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements 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.

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

Mundella Foods Pty Ltd (Mundella) has been in operation for approximately 30 years and occupies 200 hectares of land, which includes processing facilities and associated irrigation paddocks. The Premises is situated approximately 24 km east of Rockingham and approximately 12 km west of Jarrahdale.

Mundella produces yoghurts, cream and a selection of cheese. The factory also includes a cooler room, storage room, bunded oil storage tank (2,400L capacity) and administrative facilities.

Facilities: Lot 2 contains the factory Premises
Irrigation Paddocks: Lots 51, 52, 115, 123, and 511

Mundella is located within the Shire of Serpentine-Jarrahdale and the closest land zoned as residential is located 1.5km to the northeast in Mundijong. There are single residences both east and west of the factory at 110m distance.

Following daily production, scheme water is used to wash down the factory. All solids are collected in sieves located on the factory floor and placed in a skip bin which gets emptied by a contractor and removed off site twice a week. The remaining wastewater is channelled through a deodoriser and two grease traps and stored in a 22,000L storage tank, prior to irrigation of adjoining paddocks using a water tanker. The grease traps are emptied by a contractor every three months.

Irrigation occurs up to 8 times per day where the total monthly volume of wastewater irrigated is 1,040 kL which equates to an average of 7,099 litres per hectare per month. The total amount of wastewater produced per annum is 12,480 kL.

Drilling was carried out in the vicinity of the irrigated paddocks to determine groundwater levels in May 2015. The information provided shows that static water levels in the vicinity vary from 4 to 6 metres. Soil analysis shows the surface soils to be black and white sands, at depths of 0.5 m to 1.5 m. Below the sand layer, the soil consists of an orange to a brown or white clay layer from 6 to 12 m in depth. Winter rain is sometimes slow to infiltrate due to the depth of this clay layer.

This Licence is the successor to licence L8015/2003/2 and converts the licence to the current DER template. The licences and works approvals issued for the Premises since 2003 are noted below:

Instrument log		
Instrument	Issued	Description
L55/03	2003	New application
L8015/2003/2	15/04/2010	Licence re-issue
L8015/2003/2	14/04/2015	Interim amended licence issued for a period of 3 months
L8015/2003/3	02/07/2105	Licence reissue and conversion to REFIRE format



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:

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

'annual period' means the inclusive period from 15 April until 14 April in the following 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*;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Manager Licensing (Process Industries)
Department of Environment Regulation
Locked Bag 33
CLOISTERS SQUARE WA 6850
Telephone: (08) 9333 7510
Facsimile: (08) 9333 7550
Email: industry.regulation@der.wa.gov.au;

'code of practice for the storage and handling of dangerous goods' means the document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

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

'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 L8015/2003/3 and issued under the Act;

'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;

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

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

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

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 wastewater generated from the manufacture of cheese and associated procedures, including washdown waters and any other potentially contaminated waters, pass through grease traps before being irrigated on site.

1.3.2 The Licensee shall ensure that where wastes produced on the Premises are not taken off-site for lawful use or disposal, they are managed in accordance with the requirements in Table 1.3.2.



Table 1.3.2: Management of Waste		
Waste type	Disposal strategy	Operational requirements
Treated wastewater	Irrigation	The Licensee shall ensure irrigation meets the following requirements: <ul style="list-style-type: none"> no irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the Premises; no soil erosion or ponding occurs; vegetation cover is maintained over the wastewater irrigation areas; and irrigation does not occur on land that is water logged.

2 Emissions

2.1 General

2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit or target specified in any part of Section 2 of this Licence.

2.2 Point source emissions to air

There are no specified conditions relating to point source emissions to air in this section.

2.3 Point source emissions to surface water

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

2.4 Point source emissions to groundwater

There are no specified conditions relating to point source emissions to 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, it is done so in accordance with the conditions of this Licence.

Table 2.5.1 Emissions to land		
Emission points	Description and Locations on premises map in Schedule 1	Source including abatement
L1	Wastewater storage tank from which wastewater is transferred to a water tanker for irrigation of paddocks on Lots 51, 52, 115, 123, and 511.	Wastewater from milk processing operations via grease traps

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	Load of total nitrogen	140 kilograms/hectare	Annually
	Load of total phosphorus	10 kilograms/hectare	
	Load of BOD ¹	30 kilograms/hectare	Daily

Note 1: 5-day Biochemical Oxygen Demand

2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.



2.7 Odour

2.7.1 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.

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; and
- (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.

3.1.2 The Licensee shall ensure that six monthly monitoring is undertaken at least 5 months apart.

3.1.3 The Licensee shall record production or throughput data and any other process parameters relevant to any monitoring undertaken.

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 or 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	Monitoring point reference and location on Map of monitoring locations	Parameter	Units	Averaging period	Frequency
L1	M1 - Wastewater holding tank	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
		pH ¹	pH unit	Spot sample	Six monthly (April and October)
		Total suspended solids	mg/L		
		Total dissolved solids			
		BOD			
		Total nitrogen			
		Total phosphorus			

Note 1: In-field non-NATA accredited analysis permitted



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 CEO an Annual Environmental Report within 28 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
3.1.3	Volume of milk processed during the annual period	
Table 3.5.1	pH, total nitrogen, total phosphorus, total suspended solids and total dissolved solids	LR1
	Monthly volumetric flow rates	None specified
Table 2.5.1	Contaminant loading to land of parameters (total annual loading kg/ha/year for nitrogen and phosphorus, average daily loading kg/ha/day for BOD).	None specified
	Breach of any limit specified in the Licence	None specified
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

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

- any relevant process, production or operational data recorded under Condition 3.1.3; and
- an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

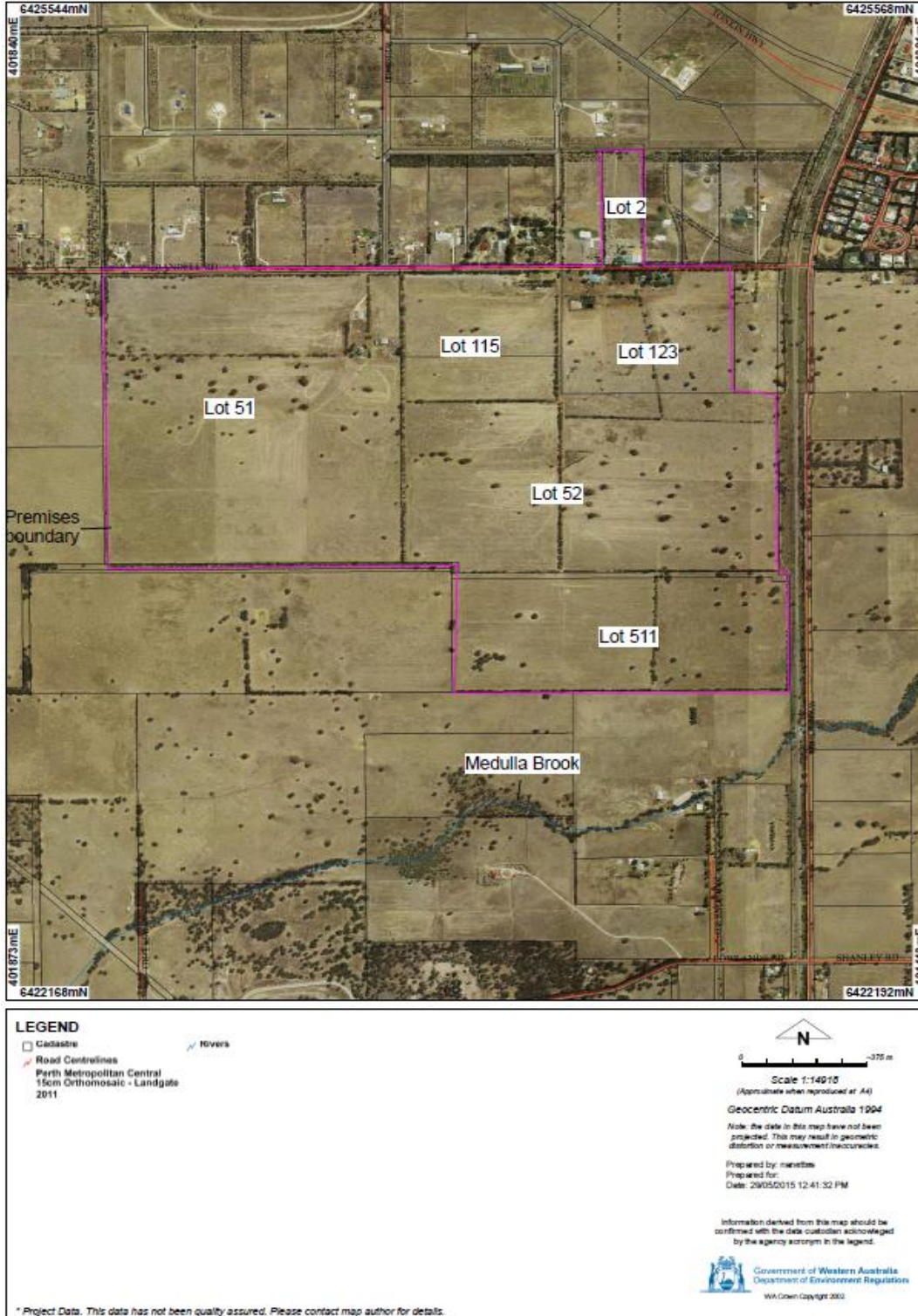
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

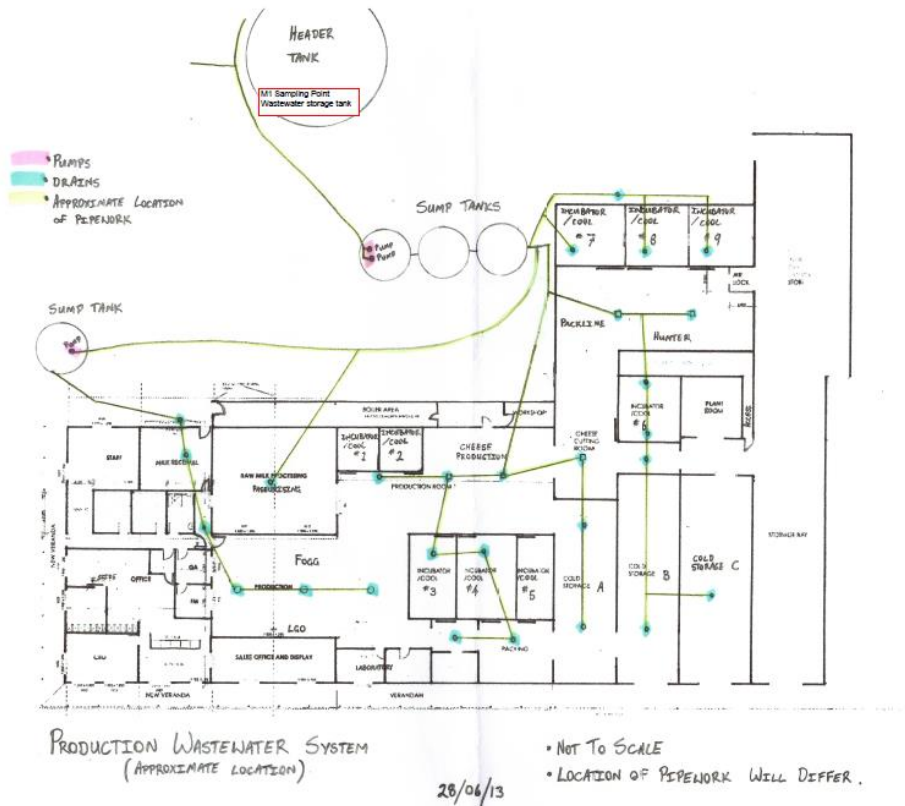
The Premises is shown in the map[s] below. The pink line depicts the Premises boundary.



Map of monitoring locations



The location of the monitoring point defined in Table 3.5.1 is shown below.





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: Trading as:	ACN:
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 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 <i>Corporations Act 2001</i> ; 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: ____/____/____

SEAL (if signing under seal)



Licence: L8015/2003/3
 Form: LR1
 Name: Monitoring of emissions to land

Licensee: Mundella Foods Pty Ltd
 Period :

Emission point	Parameter	Result	Averaging period	Method	Sample date & times
L1	pH		Spot sample		
	Total nitrogen	mg/L	Spot sample		
	Total phosphorus	mg/L	Spot sample		
	Biochemical Oxygen Demand	mg/L	Spot sample		
	Total dissolved solids	mg/L	Spot sample		
	Total suspended solids	mg/L	Spot sample		

Signed on behalf of : Date:



Licence: L8015.2003/3
 Form: N1

Licensee: Mundella Foods Pty Ltd
 Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

These pages outline the information that the operator must provide.
 Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	



Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Mundella Foods Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Mundella Foods Pty Ltd**

Licence: **L8015/2003/3**

Registered office: 8 Interchange Drive
Eastern Creek NSW 2766

ACN: 055 862 774

Premises address: Mundella Foods
Lot 2 on Plan 51860 (Randell Road), Lot 51 on Plan 226010, Lot 52 on
Plan 226115, Lot 115 on Plan 226115, Lot 123 on Diagram 5045 and
Lot 511 on Plan 249485
MARDELLA WA 6125

Issue date: Thursday, 9 July 2015

Commencement date: Wednesday, 15 July 2015

Expiry date: Tuesday, 14 July 2020

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: Nanette Schapel
Licensing Officer

Decision Document authorised by: Ed Schuller
Senior Manager



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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/>	New Licence <input checked="" type="checkbox"/>
	Licence amendment <input type="checkbox"/>	Works Approval amendment <input type="checkbox"/>
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	17	4,500 tonnes per annum
Application verified	Date: 27 February 2015	
Application fee paid	Date: 16 March 2015	
Works Approval has been complied with	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Compliance Certificate received	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Commercial-in-confidence claim	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>



3 Executive summary of proposal and assessment

Mundella Foods Pty Ltd has been in operation for approximately 30 years and occupies 200 hectares of land, which includes processing facilities and associated irrigation paddocks. The Premises is situated approximately 24 km east of Rockingham and approximately 12 km west of Jarrahdale.

Mundella Foods Pty Ltd began as a dairy farm and cattle breeder; the farm extended to a cheese factory in 1974 and currently operates as a milk processing facility for the production of yoghurts, cream and a selection of cheese. The factory also includes a cooler room, storage room, bunded oil storage tank (2,400L capacity) and administrative facilities.

Wastewater:

The raw milk area of the factory is washed down every work day with scheme water following production activities. The wastewater and any spilt product are directed through drains in the factory floor where solids are collected in sieves located in the floor of the factory. The content of the sieves are wrapped in plastic and deposited into skip bins which are taken off site by a contractor for disposal twice per week.

The remaining wastewater, which has a high dilution factor, is channelled through an interconnected drainage system which includes a deodoriser and grease traps prior to being stored in a 22,000L storage tank. The chemical breakdown of the deodoriser includes quaternary ammonium (<10%), surfactants (5%), fragrance (5%), non-hazardous ingredients (20%) and water. The grease traps are emptied by a contractor every three months and the wastes disposed off-site.

The wastewater is transferred from the storage tank to a water tanker which drives around allotted paddocks and the wastewater is released through a pipe at the rear of the tanker. Approximately eight trips are required each day to distribute the wastewater over the paddocks. The total area irrigated is 146.5 ha and the paddocks are rotated with resting intervals in between use. The monthly volume of wastewater is 1,040 kL which equates to an average of 7,099 litres per hectare per month. This is based on a 5-day per week operation (20 days per month). The total amount of wastewater produced per annum is 12,480 kL.

Mundella Foods Pty Ltd operates within the following lots which includes paddocks used for irrigation of wastewater:

Facilities: Lot 2 contains the factory; and
Irrigation Paddocks: Lots 51, 52, 115, 123, and 511

The Premises is accessed via Randell Road, off Wright Road and is bounded by Mundijong Road at the northern extent of the wastewater irrigation paddocks. The Premises is bounded by privately owned property to the west and to the south of the southerly irrigation paddocks. The Premises is bordered to the east by Wright Road.

Mundella Foods Pty Ltd is located within the Shire of Serpentine-Jarrahdale and operates within an area zoned as the Serpentine Agricultural area. The closest land zoned as residential is located 1.5km to the northeast in Mundijong. The closest neighbours (single residences) are approximately 110m to the east and also to the west. The recommended buffer distances provided by the Environmental Protection Authority Guidance Statement No. 3 is 200 to 500m, depending on size of the facility, wastewater treatment and disposal system. While Mundella does not conform to the recommended buffer distance, there have not been any odour complaints from surrounding residents.

The closest surface water body to the irrigated paddocks is Medulla Brook, situated 150m south of Lot 511. This brook is a tributary of the Serpentine River which is a further 2.6km south of the Premises. Drilling was carried out in the vicinity of the irrigated paddocks to determine groundwater levels in May 2015. The information provided shows that static water levels in the vicinity vary from 4 to 6 metres. Soil analysis shows the surface soils to be black and white sands, at depths of 0.5 m to 1.5 m. Below the sand layer, the soil consists of orange to brown or white



clay layer from 6 to 12 m in depth. Winter rain is sometimes slow to infiltrate due to the depth of the clay layer.

Current licence issue:

This Licence follows on from L8015/2003/2 and continues to authorise milk production and the irrigation of wastewater on the Premises. The licence has been converted to the current DER template. Any changes and/or inclusions to the Licence conditions are noted in Section 4 in the Decision Table.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.5 and L1.3.2	OSC	<p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Stormwater runoff can become contaminated with the nutrient enriched wastewater <i>Impact:</i> Contamination of surrounding land and surface water drainage systems. Potential impacts on ecology of surface water from the addition of nutrients, where the nearest water body is Medulla Brook, situated 150m south of Lot 511. <i>Controls:</i> Wastewater from the factory floor is directed through sieves to remove solids prior to being stored in a tank.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> OSC 1.2.5 has been added to the licence to require the operator to take measures to prevent stormwater run-off becoming contaminated by on site processes and treat any contaminated and potentially contaminated stormwater prior to it being discharged from the Premises.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Residual Risk Rating:</i> Moderate</p>	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.3.1	NA	Previous licence condition 8 required the contents of the grease traps to be emptied at least every two months and the solid wastes disposed off-site. This condition has been deleted and replaced by condition L1.3.1 (Condition 1 on previous licence).	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>
Emissions general	L2.1.1	OSC	Descriptive limits will be set through condition L2.5.2 of the licence and therefore OSC L2.1.1 requiring the recording and investigation of exceedances of limits or targets has been included.	
Point source emissions to air including monitoring	NA	NA	There are no point source emissions to air from the Premises that require regulation through this section. SC 1.2.1 applies.	
Point source emissions to surface water including monitoring	NA	NA	There are no point source emissions to water from the Premises that require regulation through this section. SC 1.2.1 applies.	
Point source emissions to groundwater including monitoring	NA	NA	There are no point source emissions to groundwater from the Premises that require regulation through this section. SC 1.2.1 applies.	
Emissions to land including monitoring	L1.3.2 L2.5.1 L2.5.2 L3.1.2 L3.5.1	OSC	DER's assessment and decision making for emissions to land including monitoring are detailed in Appendix A.	<i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Fugitive emissions	NA	NA	There are no fugitive emissions from the Premises that require regulation through this section.	
Odour	L2.7.1 and L5.1.4	OSC	<p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Potential for odour emissions from milk solid wastes generated during production activities <i>Impact:</i> Odour emissions can impact on the amenity of nearby odour sensitive premises, where the nearest single residences are located 110m to the east and 110m to the west of the Premises. <i>Controls:</i> All solid wastes are washed down from the factory floor and directed through sieves where the solid portion is wrapped in plastic and placed in skip bins which are taken off site approximately three times per week. The wastewater is then discharged through a deodoriser and grease traps prior to storage in a tank. There have not been any odour complaints regarding the Premises since the first Licence for the Premises was issued in 2003.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> <p><i>Regulatory controls:</i> Condition L2.7.1 has been included and requires the Licensee to ensure that odour from the Premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises. OSC L5.1.4 requires the Licensee to implement a complaints management system to record the number and details of any complaints received concerning emissions from the Premises.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Residual Risk Rating:</i> Low</p>	



DECISION TABLE				
Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Noise	NA	NA	Noise has not been reassessed as part of this reissue. As the previous licence did not impose controls on noise, no specified conditions have been included in this section. The <i>Environmental Protection (Noise) Regulations 1997</i> and SC 1.2.1 apply.	<i>Environmental Protection (Noise) Regulations 1997</i>
Monitoring general	L3.1.2 L3.5.1	OSC	Monitoring of the wastewater to be irrigated is required and the potential to impact on the land has been assessed under 'Emissions to land including monitoring' – see Appendix A.	
Monitoring of inputs and outputs	NA	NA	Monitoring of inputs and outputs has not been reassessed as part of this licence reissue. As the previous licence did not require the monitoring of inputs and outputs, no specified conditions have been included in this section	
Process monitoring	NA	NA	Process monitoring requirements have not been reassessed as part of this licence reissue. As the previous licence did not require process monitoring, no specified conditions have been included in this section	
Ambient quality monitoring	NA	NA	Ambient monitoring requirements have not been reassessed as part of this licence reissue. As the previous licence did not require ambient quality monitoring, no specified conditions have been included in this section	
Meteorological monitoring	NA	NA	Meteorological monitoring requirements have not been reassessed as part of this licence conversion. As the previous licence did not require meteorological monitoring, no specified conditions have been included in this section	
Improvements	NA	NA	There are no specific conditions requiring improvements to the Premises.	
Information	L5.1.3 L5.1.4 L5.2.1	OSC SC	L5.1.4 has been included for implementing a complaints management system to record complaints including any actions taken in response to a complaint. A complaints report is to be included with the Annual Environmental Report, required by Standard Condition L5.2.1. The previous licence required the Licensee to provide an Annual Audit Compliance Report (Condition 10) and an Annual Environmental Report (Condition 9). These conditions have been replaced by SC L5.1.3 and L5.2.1 respectively.	
Licence Duration	N/A	N/A	Based on the information provided, the licence has been assessed as a low risk and it is recommended that the licence instrument be issued for a period of 5 years.	



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
08/06/2015	Licence Reissue Application	Draft Licence and decision Document reviewed but no changes required	N/A



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High



Appendix A

Emissions to land including monitoring

Emission Description

Emission: Nutrient rich wastewater irrigated to land

Impact: Potential for nutrient rich wastewater to impact on native vegetation on land surrounding the paddocks being irrigated. There is also the potential for the wastewater to infiltrate to the underlying groundwater. Water Quality Protection Note No. 22 *Irrigation with nutrient-rich wastewater* (Department of Water, July 2008, see Table below) recommends that a minimum of two metre vertical separation should be maintained between the irrigated surface and the end of the wet season water table in order to maintain aerobic soils. Based on information received from a consultant contracted by Mundella in June 2015, static water levels in the irrigated area vary between 4 to 6 metres. Soils in the vicinity are black and white sands to a depth of 0.5 to 1.5m overlying a clay layer to a depth of 6 to 12 m.

Controls: The factory floor is washed down at the end of production activities each day. The solid wastes, which have the potential to contain more nutrients, are directed through sieves and removed from the waste stream. The remaining wastewater is directed through a deodoriser and grease traps prior to storage in a tank prior to irrigation by tanker.

Risk Assessment

Consequence: Minor

Likelihood: Possible

Risk Rating: Moderate

Regulatory Controls

OSC 1.3.2 requires that, when irrigating wastewater, there is to be no run-off, spray drift, ponding or discharge which crosses the Premises boundary. OSC L2.5.1 stipulates that wastewater is only to be irrigated to specific paddocks. Previous Licence condition 2 has been replaced by OSC L2.5.2 which sets limits to the nutrient loading of the irrigated wastewater. Previous licence conditions 4 and 5 have been replaced by OSC L3.5.1 which requires biannual monitoring to be carried out and OSC 3.1.2 requires that the biannual monitoring is at least 5 months apart. This is to ensure that the results are representative of the wastewater to be irrigated. Based on past monitoring reports, the nutrient loading is well below the limits specified in Condition 2.5.2. Previous licence condition 1 required that all wastewater pass through grease traps prior to irrigation. This condition has been replaced by L1.3.1.

Residual Risk

Consequence: Minor

Likelihood: Possible

Residual Risk Rating: Moderate

The Licensee is required to submit the results of the biannual sampling of the wastewater pumped to the irrigation tanker from sampling point (M1) at the top of the wastewater storage tank. The results for 2014 and part of 2015 have been compared to the loading limits in the table below recommended by Water Quality Protection Note (WQPN) No. 22 *Irrigation with nutrient-rich wastewater* (Department of Water, July 2008). The recommended levels set in the WQPN are based on the characteristics of the soils to be irrigated, where coarse grained soils (sand and gravel) are considered to be a higher risk category than fine grained soils as in loam, clays or peat.

WQPN No. 22 also recommends the following:

- *The land is zoned for compatible activities in the local government planning scheme:*
The area irrigated with wastewater is zoned rural and falls within a larger area zoned as the Serpentine Agricultural area.



- *The irrigated area is remote from areas where odours or spray drift may cause local nuisance:*
The total area of the Premises is 200 ha and 146.5 ha are irrigated, where the majority of the irrigated paddocks are at a distance to neighbouring farms.

- *The minimum water table depth is two metres:*
The static water levels in the vicinity vary from 4 to 6 metres.

- *Sufficient area of arable soil is available:*
As noted above, the total area of land irrigated is 146.5 ha. This allows paddocks to be rotated with resting intervals in between.

- *The slope of land is less than one in twenty:*
A recent site visit (April 2015) showed the surrounding paddocks to be relatively flat and within the requirement of a slope of 1 in 20.

- *Appropriate buffers are retained to sensitive water resources:*
The closest surface water body to the irrigated paddocks is Medulla Brook, situated 150m south of Lot 511. This brook is a tributary of the Serpentine River which is a further 2.6km south of the Premises.

- *The irrigated area is not subject to seasonal flooding.*
The area is not subject to 100 year ARI flood levels and there are no watersheds or wetlands in the vicinity.

Year	Parameter	Units	Nutrient loading	Licence Limit
2015 (March sampling)	BOD	kg/ha/day	3.3	30 kg/ha/day
	TN	kg/ha/year	26.92	140 kg/ha/year ¹
	TP		6.8	10 kg/ha/year ¹
	TSS		149.1	NA
	TDS		609.1	NA
2014 (sampling occurred in April and October)	BOD		kg/ha/day	2.9
	TN	kg/ha/year	20.91	140 kg/ha/year ¹
	TP		5.3	10 kg/ha/year ¹
	TSS		143.8	NA
	TDS		483.1	NA

Note 1: The limits used for Condition 2.5.2 are according to Department of Water - *Water Quality Protection Notes #22- "Irrigation with nutrient-rich wastewater" July 2008.*