



Licence Number	L5200/1988/11
Licence Holder	Rural Export & Trading (W.A.) Pty Ltd
ACN	008 781 664
Registered business address	43 Ventnor Avenue West Perth WA 6005
Date of amendment	15 December 2016
Prescribed Premises	Category 55: Livestock saleyard or holding pen
Premises	Rural Export & Trading (W.A.) Pty Ltd – Peel Feedlot 848 Mundijong Road Mardella WA 6125 Lot 123 on Diagram 7171

Amendment

The Chief Executive Officer (CEO) of the Department of Environment Regulation (DER) has amended the above licence in accordance with section 59 of the *Environmental Protection Act 1986* as set out in this Amendment Notice.

Date signed: 15 December 2016

Jonathan Bailes

A/Senior Manager - Industry Regulation (Process Industries)

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

Amendment Notice

This notice is issued under section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

Amendment Description

Licence L5200/1988/11 was granted to Rural Export & Trading (W.A.) Pty Ltd (Licence Holder) on 1 October 2015 and included two improvement requirements in condition 3.1.1. Improvement Requirement 1 (IR1) required the submission of a hydrogeological review report to the CEO. Along with establishing the hydrogeological context of the premises, the report was to include a proposal to replace and install groundwater monitoring bores. The published decision document attached to the licence made note that “*Once the licensee has completed this improvement requirement, DER will further reassess the regulatory approach*” (Section 4 Decision Table: Improvements).

The Licence Holder submitted the report *Improvement Condition IR1 – Hydrogeological Review, Coffey*, dated 24 March 2016 (the Report) on 1 April 2016 to satisfy the requirements of IR1. The Report made recommendations for the installation of new groundwater monitoring bore locations. Groundwater monitoring bore alterations from the Report are summarised in Tables 1 and 2.

Table 1: New groundwater monitoring bore locations as proposed by the Licence Holder

Well ID	Proposed Location	Rationale
MW1	Replace existing MB1, further to the north or east if possible.	Provide background conditions, move away from dam to avoid proximity effects.
MW2	Replace existing MB2.	Down gradient of the dam. Identify potential impacts associated with the dam.
MW3	Move to the south of existing MB3. Immediately west of the neighbouring cattle holding shed on 25 Lightbody Road.	Identify potential impacts moving off <i>or</i> on site.
MW4	Replace existing MB4.	Identify potential impacts moving off site / provide background concentrations.
MW5	To the west (down gradient) of the holding sheds.	Immediately down gradient of the holding sheds and drainage channel which receive runoff. Will also provide a comparison to new MW4 which is further down gradient.

(Source: Table 3 in section 7.2 of the Report)

Table 2: New groundwater monitoring bore construction details as proposed by the Licence Holder

Depth	Well material	Construction material	Rationale
7m – 4m	Slotted screen	Gravel pack	Assuming depth to groundwater is 5m bgl, the slotted screen will extend 2m below and 1m above the encountered groundwater.
4m – surface	Solid screen	Bentonite seal	By sealing the remaining length of the well column, groundwater from the perched aquifer will not be able to flow into the monitoring well.

(Source: Table 2 in section 7.2 of the Report)

The amendments to Licence L5200/1988/11 outlined in this Amendment Notice have been initiated by DER.

Review of the Report

The Delegated Officer sought advice from DER’s Contaminated Sites function regarding the Report submitted. The written advice dated 21 June 2016 concluded that:

- the review of the hydrogeology of the site as provided in the Report is technically sound; and
- the proposed locations of the monitoring bores are acceptable, but it is recommended that additional shallow bores be constructed at each site to monitor seasonal groundwater flow in the perched aquifer.

It is noted that the perched aquifer beneath the premises is only likely to contain significant amounts of groundwater during the winter months. However, it is likely to provide a seasonal pathway to transmit nutrients and other soluble contaminants into nearby drains and waterways.

Risk Assessment

The Report findings do not alter the assessed risk profile within the decision document attached to Licence L5200/1988/11 which justifies the inclusion of groundwater monitoring requirements (Section 4 - Decision Table). The installation and subsequent monitoring of groundwater bores as outlined in Tables 1 and 2 above will replace existing groundwater monitoring requirements in the licence.

The review of the Report has identified an additional contaminant pathway (a seasonally perched aquifer) that could result in transport of contaminants to environmental receptors (nearby drains and waterways) that are within the *Environmental Protection (Peel Inlet-Harvey Estuary) Policy 1992* area.

The installation of new bores in both the seasonal perched aquifer and the superficial aquifer is consistent with the previous risk assessment and addresses updated source, pathway and receptor information.

Decision

The Delegated Officer had regard to:

- the Report submitted by the Licence Holder;
- advice from DER's Contaminated Sites function dated 21 June 2016; and
- the decision document attached to Licence L5200/1988/11 granted 1 October 2015.

The Delegated Officer is satisfied that the requirement for groundwater monitoring has been justified through a risk-based assessment in the existing decision document. The Report and DER technical advice provide the basis for specific alterations to the existing groundwater monitoring program to ensure the monitoring addresses identified sources, pathways, and receptors.

Amendments to the licence include:

- Installation of new groundwater monitoring bores at locations indicated in Table 1;
- Construction of new groundwater monitoring bores consistent with the design specifications in Table 2;
- Installation of an additional groundwater monitoring bore at each new location within the seasonally perched aquifer; and
- Changes to the monitoring program in condition 2.3.1 which take effect upon installation of the new groundwater monitoring bores.

The licence amendments are consistent with DER's published *Guidance Statement: Regulatory principles* and *Guidance Statement: Setting conditions*.

Amendment History

Instrument	Issued	Amendment
L5200/1988/11	15/12/2016	Amendment Notice 1 Improvement program and groundwater monitoring requirements amended.
L5200/1988/11	29/04/2016	Amendment by notice to extend the licence duration
L5200/1998/11	01/10/2015	Licence renewal

Consultation

The Licence Holder was provided with a draft Amendment Notice on 30 November 2016 for comment. The Licence Holder waived the 21 day consultation period on 13 December 2016 and requested the amendment notice to be issued.

Amendment

- Table 2.3.2 of condition 2.3.1 of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

2.3.1 The Licensee shall undertake the monitoring and analysis in Tables 2.3.1 and 2.3.2 according to the specifications in those tables ~~and record and investigate results that do not meet any limit specified.~~

Table 2.3.2: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
MB1, MB2, MB3 and MB4 (Groundwater monitoring boreholes as shown on the map of monitoring locations in Schedule 1)	Standing water level ¹	m(AHD)	Instantaneous ²	Six monthly ³ <u>until groundwater monitoring bores are installed and commissioned in accordance with condition 3.1.1</u>
	pH	-	Instantaneous ² or spot sample	
	Electrical conductivity	µS/cm	Spot sample	
	Total nitrogen, nitrate nitrogen, ammonia nitrogen and total phosphorus	mg/L		
<u>MW1, MW2, MW3, MW4 and MW5</u> <u>(as depicted in the Schedule 1: Map of groundwater monitoring locations)</u>	<u>Standing water level¹</u>	<u>m(AHD)</u>	<u>Instantaneous²</u>	<u>Commencing upon installation of groundwater monitoring bores in accordance with condition 3.1.1:</u> <u>(a) Six monthly³ sampling of groundwater monitoring bores within the superficial aquifer; and</u> <u>(b) Two sampling events separated by at least one month of groundwater monitoring bores within the seasonally perched aquifer between April and October.</u>
	<u>pH</u>	<u>-</u>	<u>Instantaneous² or spot sample</u>	
	<u>Electrical conductivity</u>	<u>µS/cm</u>	<u>Spot sample</u>	
	<u>Total nitrogen, nitrate nitrogen, ammonia nitrogen and total phosphorus</u>	<u>mg/L</u>		

- SWL shall be determined prior to collection of water samples.
- In-field non-NATA accredited analysis permitted.
- Six monthly monitoring is to be undertaken at least 5 months apart.

2. Table 3.1.1 of the licence is amended by the deletion of text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 3.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
<i>IR1</i>	The Licensee shall conduct a hydrogeological review of the Premises and submit to the CEO a report that details: (i) a summary of the hydrogeological context of the site; (ii) an assessment of groundwater levels and flow direction; (iii) an assessment of existing groundwater monitoring bores; (iv) an assessment of groundwater monitoring requirements based on identified sources and pathways of all potential solid and liquid waste discharges; and (v) proposals to replace and install upgradient and downgradient groundwater monitoring bores including timeframes and proposed bore specifications.	<i>30 April 2016</i>
<i>IR2</i>	The Licensee shall submit to the CEO a report containing an assessment of the design capacity of the existing wastewater collection system including the livestock holding areas, catch drains and the evaporation pond to confirm run-off generated from a 1 in 20 year storm event (20 year average recurrence interval) of 72 hours duration can be adequately contained.	<i>30 April 2016</i>
<u>IR1</u>	<u>The Licensee shall install new groundwater monitoring bores in accordance with the following:</u> <u>(a) Two groundwater monitoring bores are installed at each of the five locations (MW1, MW2, MW3, MW4 and MW5), depicted in the Schedule 1: Map of groundwater monitoring locations.</u> <u>(b) At each of the locations specified in part (a):</u> <u>(i) one bore is installed within the seasonally perched aquifer; and</u> <u>(ii) one bore is installed in the superficial aquifer.</u> <u>(c) Groundwater monitoring bores installed within the superficial aquifer include a bentonite seal extending from the top of the screened interval to the surface to prevent the flow of water from the seasonally perched aquifer into the monitoring bore.</u> <u>(d) All groundwater monitoring bores are:</u> <u>(i) installed to meet the requirements of Minimum Construction requirements for Water Bores in Australia (AIH 2012);</u> <u>(ii) sited in accordance with the Department of Water Water Quality Protection Note 30 Groundwater Monitoring Bores (DoW 2009); and</u> <u>(iii) surveyed to allow the ground level (to Australian Height Datum) at each location to be accurately determined.</u>	<u>30 April 2017</u>

3. The licence is amended by the insertion of the following map in Schedule 1:

Map of groundwater monitoring locations

The locations of groundwater monitoring points to be installed in accordance with condition 3.1.1 and subsequently monitored in accordance with condition 2.3.1 are shown below.

