



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Wesfarmers LPG Pty Ltd

**Licence:** L6306/1989/11

**Registered office:** 40 The Esplanade  
PERTH WA 6000

**ACN:** 009 214 831

**Premises address:** Donaldson Road  
KWINANA BEACH WA 6167  
Being Part of Lot 102 on Plan 73740  
(as depicted in Schedule 1)

**Issue date:** Friday, 7 November 2014

**Commencement date:** Sunday, 9 November 2014

**Expiry date:** Friday, 8 November 2019

**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
34	Oil or gas refining: premises on which crude oil, condensate or gas is refined or processed	Not Applicable	420,000 tonnes per annual period

**Conditions**

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

Date signed: 31 December 2015

.....  
 Jonathan Bailes  
 Manager Licensing (Process Industries)  
 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 regulates 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**

Wesfarmers LPG Pty Ltd (the Licensee) has owned and operated a manufacturing plant within the Kwinana Industrial Area (about 30km south of Perth) since 1988. The site is located within the Kwinana Industrial Area and located in proximity to other industry including Major Hazard Facilities. The south-east corner of the premises boundary is approximately 900 m from the commencement of a Bush Forever site located to the south-east. The coastal shoreline for the Cockburn Sound is approximately 1.7 km to the west of the premises boundary. The nearest residential receptors are in the suburb of Medina located approximately 2.1 km south-east of the premises boundary.

The site produces both Liquefied Petroleum Gas (LPG) and Liquefied Natural Gas (LNG) with all plants designed to run on a continuous basis. The site has three types of stack emissions for which oxides of nitrogen (NOx) is the key emission parameter. These are explained below:

- (i) **Flares:** There is one continuously operated LPG flare, one continuously operated LNG flare, and one standby back-up LPG flare on site. These flares are required by Licensee as an essential safety control which need to be available at all times for the safe management of unsteady periods of plant operation, during ship loading, or emergency release scenarios.
- (ii) **Gas turbine exhausts:** The LPG train 1, LPG train 2 and LNG plants all produce NOx emissions as a result of combustion of fuel gas (natural gas) in gas-fired turbines which drive the compressors. There is one gas turbine in LPG train 1, one in LPG train 2, and one in the LNG plant. Routine planned maintenance is conducted to ensure the gas turbines are running at optimum performance. This also aides in NOx emissions being maintained at relatively consistent levels. NOx emissions are also steady during start-up and shutdowns.
- (iii) **Start-up heater:** The start-up heater is only required to be operated to provide an initial heat load if the LPG plant is shut down for an extended period of time (and heat is lost from the plant).

This Licence is as an amended version of L6306/1989/11 in response to an application for licence amendment from the Licensee. Key changes in this amended licence relate to the cessation of reverse osmosis reject water irrigation and consequent removal of emission and monitoring conditions. Administrative changes were also undertaken.

The licences and works approvals issued for the Premises since 01/01/2009 are:

Instrument log		
Instrument	Issued	Description
L6306/1989/10	05/11/2009	Licence re-issue
L6306/1989/10	03/11/2011	Licence amendment
L6306/1989/10	15/05/2014	Licence amendment
L6306/1989/11	07/11/2014	Licence re-issue
L6306/1989/11	27/11/2014	Licence amendment
L6306/1989/11	31/12/2015	Licensee initiated amendment – cessation of reverse osmosis reject water emission to land



## 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 1 July until 31 June in the following year;

‘**CEO**’ means Chief Executive Officer of the Department of Environment Regulation;

‘**CEO**’ for the purpose of correspondence means:

Chief Executive Officer  
Department Administering the *Environmental Protection Act 1986*  
Locked Bag 33  
CLOISTERS SQUARE WA 6850  
Email: info@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;

‘**Licence**’ means this Licence numbered L6306/1989/11 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;



**'NOx'** means oxides of nitrogen, calculated as the sum of nitric oxide and nitrogen dioxide and expressed as nitrogen dioxide;

**'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;

**'stack test'** means a discrete set of samples taken over a representative period at normal operating conditions;

**'STP dry'** means standard temperature and pressure (0°Celsius and 101.325 kilopascals respectively), dry;

**'USEPA'** means United States (of America) Environmental Protection Agency;

**'USEPA Method 7E'** means the USEPA stack test method titled 'Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyser Procedure)';

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.

1.1.5 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 General conditions**

1.2.1 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.

1.2.2 The Licensee shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.

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

**1.3 Premises operation**

1.3.1 The Licensee shall ensure the materials specified in Table 1.3.1 are only stored within vessels or compounds provided within the infrastructure detailed in Table 1.3.1.

<b>Table 1.3.1: Containment infrastructure</b>		
<b>Containment infrastructure reference and location on Premises map in Schedule 1</b>	<b>Material</b>	<b>Infrastructure requirements</b>
Containment Pond	Reverse osmosis reject water	None specified



## 2 Emissions

### 2.1 Point source emissions to air

2.1.1 The Licensee shall ensure that where waste is emitted to air from the emission points in Table 2.1.1 and identified on the Premises map in Schedule 1 it is done so in accordance with the conditions of this Licence.

Table 2.1.1: Emission points to air			
Emission point reference	Emission point reference on Premises map	Emission Point	Source, including any abatement
A1	1	Drive Train No. 1 gas recompressor stack	Gas Turbine for the drive Train No. 1 gas recompressor
A2	2	Drive Train No. 2 gas recompressor stack	Gas Turbine for the drive Train No. 2 gas recompressor
A3	3	Drive Mixed Refrigerant Compressor stack	Gas Turbine for the Drive Mixed Refrigerant Compressor.

## 3 Monitoring

### 3.1 General monitoring

- 3.1.1 The Licensee shall ensure that annual monitoring is undertaken at least 9 months apart.
- 3.1.2 The Licensee shall record production or throughput data and any other process parameters relevant to any non-continuous monitoring undertaken.

### 3.2 Monitoring of point source emissions to air

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of point source emissions to air					
Emission point reference	Parameter	Units <sup>1,3</sup>	Averaging period	Frequency <sup>2</sup>	Method
A1 – A3	NOx	mg/m <sup>3</sup> g/s	Stack Test (minimum 30 minute average)	Annual	USEPA Method 7E

Note 1: All units are referenced to STP dry

Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.

Note 3: Emission rates will be calculated by applying the mass flow rate specified by the manufacturer to the relevant NOx concentration.

- 3.2.2 The Licensee shall ensure that sampling required under Condition 3.2.1 of the Licence is undertaken at sampling locations in accordance with the AS 4323.1 or any other sampling point that is representative of actual emissions.
- 3.2.3 The Licensee shall ensure that all non-continuous sampling and analysis undertaken pursuant to condition 3.2.1 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.



## 4 Information

### 4.1 Records

- 4.1.1 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 4.1.1(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.
- 4.1.2 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.
- 4.1.3 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.
- 4.1.4 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.

### 4.2 Reporting

- 4.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 60 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.

<b>Table 4.2.1: Annual Environmental Report</b>		
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Format or form<sup>1</sup></b>
3.2.1	The Licensee shall report the results of stack testing, required by Condition 3.2.1. The Licensee shall also provide in the annual report an accurate estimate of the total mass of NOx discharged in the previous twelve month period.	None specified
-	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
4.1.3	Compliance	Annual Audit Compliance Report (AACR)
4.1.4	Complaints summary	None specified

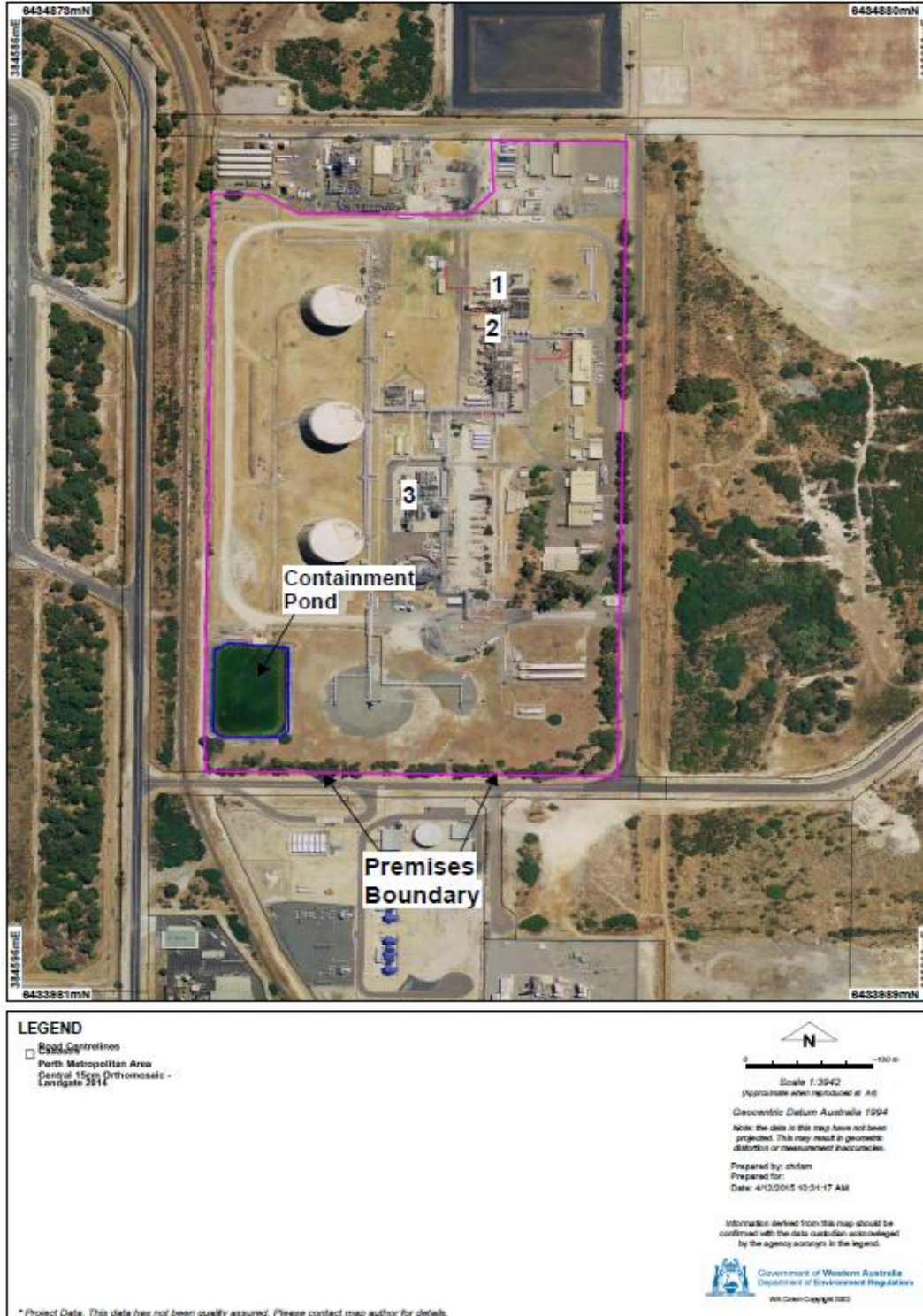
Note 1: Forms are in Schedule 2



## Schedule 1: Maps

### Premises Map

The Premises is shown in the map below. The pink line depicts the Premises boundary. The emission points to air in Table 2.2.1 are numbered and the blue line depicts the location of the containment pond.





## 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 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)



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** **Wesfarmers LPG Pty Ltd**

**Licence:** **L6306/1989/11**

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**Registered office:** 40 The Esplanade  
PERTH WA 6000

**ACN:** 009 214 831

**Premises address:** Donaldson Road  
Kwinana WA 6167  
Being Part of Lot 102 on Plan 73740

**Issue date:** Friday, 07 November 2014

**Commencement date:** Sunday, 09 November 2014

**Expiry date:** Friday, 08 November 2019

### **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: Chris Malley  
A/Senior Licensing Officer

Decision Document authorised by: Ed Schuller  
Delegated Officer



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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.



## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	34	420,000 tonnes per annum
Application verified	Date: 04/12/2015	
Application fee paid	Date: N/A	
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	N/A	
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"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 000556 EPA Report No: 993
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"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
The premises is located within Area A of the <i>Environmental Protection (Kwinana) (Atmospheric wastes) Policy 1999</i>		
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	



### 3 Executive summary of proposal and assessment

Wesfarmers LPG Pty Ltd (the Licensee) has owned and operated a manufacturing plant within the Kwinana Industrial Area (about 30km south of Perth) since 1988. The site is located within the Kwinana Industrial Area and located in proximity to other industry including Major Hazard Facilities. The south-east corner of the premises boundary is approximately 900 m from the commencement of a Bush Forever site located to the south-east. The coastal shoreline for the Cockburn Sound is approximately 1.7 km to the west of the premises boundary. The nearest residential receptors are in the suburb of Medina located approximately 2.1 km south-east of the premises boundary. The Licensee is located on the majority of the land parcel as Air Liquide lease a northern portion, which the Licensee has delineated by a fence line. The Air Liquide lease area is not part of the licensed premises.

The site produces both Liquefied Petroleum Gas (LPG) and Liquefied Natural Gas (LNG) with all plants designed to run on a continuous basis. The site has three types of stack emissions for which oxides of nitrogen (NOx) is the key emission parameter. These are explained below:

- (i) **Flares:** There is one continuously operated LPG flare, one continuously operated LNG flare, and one standby back-up LPG flare on site. These flares are required by Licensee as an essential safety control which need to be available at all times for the safe management of unsteady periods of plant operation, during ship loading, or emergency release scenarios.
- (ii) **Gas turbine exhausts:** The LPG train 1, LPG train 2 and LNG plants all produce NOx emissions as a result of combustion of fuel gas (natural gas) in gas-fired turbines which drive the compressors. There is one gas turbine in LPG train 1, one in LPG train 2, and one in the LNG plant. Routine planned maintenance is conducted to ensure the gas turbines are running at optimum performance. This also aides in NOx emissions being maintained at relatively consistent levels. NOx emissions are also steady during start-up and shutdowns.
- (iii) **Start-up heater:** The start-up heater is only required to be operated to provide an initial heat load if the LPG plant is shut down for an extended period of time (and heat is lost from the plant).

The Licensee also has a discharge of reverse osmosis (RO) reject water which is irrigated to lawn and grass areas on site. Scheme water is the source for RO treatment. RO reject water is stored in a sump pending irrigation. The Licensee has submitted an application for a licence amendment in relation to a proposal to cease irrigation of reject water. The water will instead be directed to an existing containment pond used for firefighting purposes. The containment pond has historically been topped up using bore water and the redirection of reject water will reduce the amount of bore water consumed. Licence L6306/1989/11 contains conditions that allow the emission of RO reject water to land with water quality sampling conditions. The Licensee has also requested a number of other administrative changes and corrections which are summarised in Appendix A. The Licensee's proposal to redirect RO reject water to an existing containment pond and cease irrigation to land changes the emissions to land risk profile but is not expected to change the risk profile for other emissions.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986* (EP Act), 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. *Note: Referenced condition numbers are pre-amendment unless otherwise specified.*

DECISION TABLE			
Works Approval / Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.3	Condition 1.2.1 has been moved from section 1.2 (general conditions) to section 1.1 (interpretation) in the amended licence. The change is a DER administrative change and does not impact on the risk profile of any emissions.	N/A
Premises operation	L1.3.1	As per the 'Emissions to land' risk assessment, the amended licence will include condition 1.3.1 specifying the containment infrastructure for storing materials. Reverse osmosis reject water will be required to be stored in the containment pond that will be referenced on the map in Schedule 1 of the licence.	Application supporting documentation.
Emissions to land including monitoring	L1.3.1 L2.5.1 L3.5.1	<p><u>Emission Description</u></p> <p><i>Emission:</i> The reverse osmosis plant purifies scheme water for use within the plant. Fluoride and electrical conductivity (EC) are the two main parameters considered slightly higher than concentrations specified in the Australian Drinking Water Guidelines 2011 (ADWG). Monitoring has shown conductivity to be around 1430 µS/cm or lower (approximate equivalent total dissolved solids concentration of 915 mg/L compared to the ADWG concentration of 600 mg/l set for good palatability) and the fluoride ranging between 1.7-2.4mg/l (ADWG value is 1.5 mg/L). Reject water was previously irrigated to grassed areas on the premises. However the Licensee has submitted a licence amendment application to redirect water into an existing containment pond used for storing bore water for potential firefighting purposes. There will be no further emission to land.</p>	<p>Application supporting documentation</p> <p>Australian Drinking Water Guidelines (2011), NHMRC</p>



DECISION TABLE			
Works Approval / Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Impact:</i> The cessation of irrigation means there are no further potential impacts on groundwater quality through emissions to land. The premises is located within the Kwinana industrial area and not within a drinking water catchment. Cockburn Sound is located approximately 1.7 km from the premises boundary.</p> <p><i>Controls:</i> Reverse osmosis reject water will not be irrigated. Water will be stored in a containment pond and used for emergencies in the event of a fire.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Rare  <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u>            Condition 2.5.1 relating to emissions to land has been deleted as there will be no further irrigation of reverse osmosis reject water. Condition 3.5.1 has been deleted as the cessation of irrigation removes the need for water quality monitoring. As reject water will now be directed to an existing containment pond, the amended licence will include condition 1.3.1 specifying the containment infrastructure.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Rare  <i>Risk Rating:</i> Low</p>	
<b>Fugitive emissions</b>	L2.6.1	<p><u>Emission Description</u>  <i>Emission:</i> Dust lift off from vehicle movements on site.  <i>Impact:</i> Reduction of local air quality and nuisance impacts.  <i>Controls:</i> Specific Licensee controls are not known. The site has extensive grassed areas on site in addition to the use of mulch cover, Bluemetal stone and hardstand operational areas.</p>	<i>Environmental Protection Act 1986 – Part V</i>



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		<p><u>Risk Assessment</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u>            The generic fugitive dust condition in condition 2.6.1 has been deleted as the Licensee is required to comply with the general provisions of the EP Act.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p>	
<b>Monitoring general</b>	L3.1.1 L3.1.2 L3.1.3	<p>As per the 'emissions to land' risk assessment, condition 2.5.1 that allowed permitted irrigation of RO reject water has been deleted from the amended licence as has condition 3.5.1 specifying a water quality monitoring programme. The following amendments have been made to general monitoring conditions:</p> <ul style="list-style-type: none"> <li>• Parts (a) and (b) of condition 3.1.1 that specify water sampling methods have been deleted; and</li> <li>• Part (a) of condition 3.1.2 defining the period of six monthly sampling has been deleted.</li> </ul> <p>An amendment has also been made to condition 3.1.3 to remove reference to continuous emission monitoring systems (CEMS) as no CEMS requirements are specified in the licence.</p>	Application supporting documentation
<b>Information</b>	Table 5.2.1	The requirement to report emissions to land monitoring data in the annual environmental report has been deleted from Table 5.2.1 in condition 5.2.1 in response to the 'emissions to land' risk assessment.	Application supporting documentation
<b>Licence Duration</b>	N/A	The licence expires on 8 November 2019. The licence duration has not been altered as a result of this amendment.	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
<b>Administrative Changes</b>	L1.1.2 L3.2.1 L5.3.1	<p>DER made the following administrative changes in the amended licence unrelated to the licensee's application:</p> <ul style="list-style-type: none"> <li>• deletion of any conditions that state words to the effect 'there are no specified conditions relating to [x] in this section';</li> <li>• deletion of any condition headings or numbers retained for numbering purposes;</li> <li>• deletion of condition 5.3.1 as it required the Licensee to report matters which they would otherwise be required to report to the CEO under section 72 of the EP Act;</li> <li>• deletion and modification of definitions in condition 1.1.2 that were not specified in the licence or required update;</li> <li>• The 'registered office' address associated with the ACN was corrected; and</li> <li>• The legal land description was corrected to be consistent with DER's cadastral spatial data.</li> </ul> <p>These changes do not change the risk profile of emissions from the premises.</p> <p>DER made the following administrative changes and corrections in the amended licence that were requested by the Licensee (refer to summary in Appendix A):</p> <ul style="list-style-type: none"> <li>• deletion of definitions relating to the 'emission to land' risk assessment';</li> <li>• modification of the 'annual period' definition from 1 September until 31 August to 1 July until 31 June;</li> <li>• deletion of 'Note 3' in Table 3.2.1 of condition 3.2.1 as it is a typographical error and there is no emission point A5;</li> <li>• the Schedule 1 premises and emission points map was updated to reflect the removal of emission to land point L1.</li> </ul>	<p><i>Environmental Protection Act 1986 – Section 72</i></p> <p>Application supporting documentation</p>



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
14/01/2015	Licensee sent notification of proposed licence changes with a supporting decision document.	<p>The Licensee submitted a consultation waiver subject to some comments and track changes. The Licensee's comments and requested changes are summarised as follows:</p> <ol style="list-style-type: none"><li>1. Licensee confirmed registered office details were correct;</li><li>2. Licensee confirmed legal land description was correct;</li><li>3. Licensee provided revised wording for the 'premises description and licence summary' section;</li><li>4. 'NATA accredited' is mentioned in condition 3.2.3 therefore, the definition should remain;</li><li>5. The proposed change to condition 3.2.2 means the Licensee is unable to comply with the condition due to removal of the phrase 'or any other sampling point that is representative of actual emissions.' The Licensee provided a copy of correspondence from the Manager Licensing (Process Industries) which formed the basis for including that particular phrase in the condition;</li><li>6. The Licensee pointed out several minor typographical errors.</li></ol>	<p>DER considered the comments and suggested changes with the following outcomes:</p> <ol style="list-style-type: none"><li>1. Noted;</li><li>2. Noted;</li><li>3. DER did not object to the revised wording that was adopted in the amended licence;</li><li>4. The removal of both the 'NATA' and 'NATA accreditation' definitions was in error and both have been retained in the amended licence;</li><li>5. The basis for the specific wording is acknowledged and the phrase 'or any other sampling point that is representative of actual emissions' was retained in the licence. Reference to the CEMS code remained deleted.</li><li>6. Typographical errors noted by the Licensee were corrected in the amended licence.</li></ol>
04/01/2016	Decision to grant an amended licence advertised in the West Australian newspaper	N/A	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 - Summary of Licensee's requested licence changes

Condition number	Wesfarmers LPG Licence Conditions (L6306/1989/11)	Suggested Change								
Condition 1.1.2	'annual period' means the inclusive period from 1 September until 31 August in the following year	'annual period' means the inclusive period from 1 July until 31 June in the following year.								
Condition 1.1.2	'Australian Drinking Water Guidelines'	Remove definition.								
Condition 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 border="1" data-bbox="443 792 1082 929"> <caption>Table 2.5.1: Emissions to land</caption> <thead> <tr> <th>Emission point reference</th> <th>Emission point reference on Map of emission points</th> <th>Description</th> <th>Source including abatement</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>L1</td> <td>Collection sump for irrigation area consisting of grass land</td> <td>Reject water from the reverse osmosis plant treatment of scheme water.</td> </tr> </tbody> </table>	Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement	L1	L1	Collection sump for irrigation area consisting of grass land	Reject water from the reverse osmosis plant treatment of scheme water.	Remove from licence
Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement							
L1	L1	Collection sump for irrigation area consisting of grass land	Reject water from the reverse osmosis plant treatment of scheme water.							

Condition number	Wesfarmers LPG Licence Conditions (L6306/1989/11)	Suggested Change												
Condition 3.1.1	The licensee shall ensure that: <ul style="list-style-type: none"> <li>(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;</li> <li>(b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;</li> <li>(c) All laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.</li> </ul>	Remove condition												
Condition 3.1.2	The Licensee shall ensure that: <ul style="list-style-type: none"> <li>a) six monthly monitoring is undertaken at least 5 months apart and</li> <li>b) annual monitoring is undertaken is undertaken at least 9 months apart.</li> </ul>	Remove <ul style="list-style-type: none"> <li>a) Six monthly monitoring is undertaken at least 5 months apart</li> </ul>												
Table 3.2.1	<table border="1" data-bbox="443 1630 1082 1749"> <caption>Table 3.2.1: Monitoring of point source emissions to air</caption> <thead> <tr> <th>Emission point reference</th> <th>Parameter</th> <th>Units<sup>1,2,3,4</sup></th> <th>Averaging period</th> <th>Frequency<sup>2</sup></th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>A1 – A3</td> <td>NOx</td> <td>mg/m<sup>3</sup> g/s</td> <td>Stack Test (minimum 30 minute average)</td> <td>Annual</td> <td>USEPA Method 7E</td> </tr> </tbody> </table> <p>Note 1: All units are referenced to STP dry  Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.  Note 3: Concentration units for A5 are referenced to 15% O<sub>2</sub> .  Note 4: Emission rates will be calculated by applying the mass flow rate specified by the manufacturer to the relevant NOx concentration.</p>	Emission point reference	Parameter	Units <sup>1,2,3,4</sup>	Averaging period	Frequency <sup>2</sup>	Method	A1 – A3	NOx	mg/m <sup>3</sup> g/s	Stack Test (minimum 30 minute average)	Annual	USEPA Method 7E	Update Note 3 to reference A1-A3.
Emission point reference	Parameter	Units <sup>1,2,3,4</sup>	Averaging period	Frequency <sup>2</sup>	Method									
A1 – A3	NOx	mg/m <sup>3</sup> g/s	Stack Test (minimum 30 minute average)	Annual	USEPA Method 7E									



Condition number	Wesfarmers LPG Licence Conditions (L6306/1989/11)	Suggested Change																		
Table 3.5.1	<p>3.5 Monitoring of emissions to land</p> <p>3.5.1 The Licensee shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.</p> <table border="1"> <caption>Table 3.5.1: Monitoring of emissions to land</caption> <thead> <tr> <th>Emission point reference</th> <th>Parameter</th> <th>Units</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>L1</td> <td>pH</td> <td>pH unit</td> <td>Six monthly</td> </tr> <tr> <td>L1</td> <td>Electrical Conductivity</td> <td>µS/cm</td> <td>Six monthly</td> </tr> <tr> <td>L1</td> <td>Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.</td> <td>mg/L</td> <td>Six monthly</td> </tr> </tbody> </table>	Emission point reference	Parameter	Units	Frequency	L1	pH	pH unit	Six monthly	L1	Electrical Conductivity	µS/cm	Six monthly	L1	Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.	mg/L	Six monthly	Remove condition		
Emission point reference	Parameter	Units	Frequency																	
L1	pH	pH unit	Six monthly																	
L1	Electrical Conductivity	µS/cm	Six monthly																	
L1	Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.	mg/L	Six monthly																	
Table 5.2.1	<table border="1"> <caption>Table 5.2.1: Annual Environmental Report</caption> <thead> <tr> <th>Condition or table (if relevant)</th> <th>Parameter</th> <th>Format or form<sup>1</sup></th> </tr> </thead> <tbody> <tr> <td>3.2.1</td> <td>The Licensee shall report the results of stack testing, required by Condition 3.2.1. The Licensee shall also provide in the annual report an accurate estimate of the total mass of NOx discharged in the previous twelve month period.</td> <td>None specified</td> </tr> <tr> <td>-</td> <td>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</td> <td>None specified</td> </tr> <tr> <td>Table 3.5.1</td> <td>pH, electrical conductivity, Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.</td> <td>LR1</td> </tr> <tr> <td>5.1.3</td> <td>Compliance</td> <td>Annual Audit Compliance Report (AACR)</td> </tr> <tr> <td>5.1.4</td> <td>Complaints summary</td> <td>None specified</td> </tr> </tbody> </table> <p>Note 1: Forms are in Schedule 2</p>	Condition or table (if relevant)	Parameter	Format or form <sup>1</sup>	3.2.1	The Licensee shall report the results of stack testing, required by Condition 3.2.1. The Licensee shall also provide in the annual report an accurate estimate of the total mass of NOx discharged in the previous twelve month period.	None specified	-	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	Table 3.5.1	pH, electrical conductivity, Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.	LR1	5.1.3	Compliance	Annual Audit Compliance Report (AACR)	5.1.4	Complaints summary	None specified	Remove reference to Table 3.5.1
Condition or table (if relevant)	Parameter	Format or form <sup>1</sup>																		
3.2.1	The Licensee shall report the results of stack testing, required by Condition 3.2.1. The Licensee shall also provide in the annual report an accurate estimate of the total mass of NOx discharged in the previous twelve month period.	None specified																		
-	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																		
Table 3.5.1	pH, electrical conductivity, Chloride, Aluminium, Arsenic, Barium, Cadmium, Cobalt, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Zinc, Boron, Iron, Mercury, Hexavalent Chromium, Fluoride, Nitrite as N and Nitrate as N.	LR1																		
5.1.3	Compliance	Annual Audit Compliance Report (AACR)																		
5.1.4	Complaints summary	None specified																		
Condition 5.2.2	<p>5.2.2 The Licensee shall ensure that the Annual Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and the water sampling results from emission point L1 against the Australian Drinking Water Guidelines.</p>	Remove reference to the Australian Drinking Water Guidelines and																		

Condition number	Wesfarmers LPG Licence Conditions (L6306/1989/11)	Suggested Change								
		water sampling results from emission point L1								
Condition 5.3.1	<p>5.3 Notification</p> <p>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.</p> <table border="1"> <caption>Table 5.3.1: Notification requirements</caption> <thead> <tr> <th>Condition or table (if relevant)</th> <th>Parameter</th> <th>Notification requirement<sup>1</sup></th> <th>Format or form<sup>2</sup></th> </tr> </thead> <tbody> <tr> <td>-</td> <td>Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution</td> <td>As soon as practicable</td> <td>N1</td> </tr> </tbody> </table> <p>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</p>	Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>	-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	As soon as practicable	N1	Remove reference to N1 form
Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>							
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	As soon as practicable	N1							
Schedule 1	Schedule 1	Update Schedule 1								
Form LR1	Form LR1	Remove from Licence								
Form N1	Form N1	Remove from Licence								