



## LICENCE FOR PRESCRIBED PREMISES

### *Environmental Protection Act 1986*

**LICENCE NUMBER:** L4193/1989/12

**FILE NUMBER:** 2010/003826

#### **LICENSEE**

Electricity Generation and Retail Corporation  
219 St Georges Terrace  
PERTH WA 6000

#### **PREMISES**

Synergy Perron Quarry  
Lot 1 on Plan 24276  
HOPE VALLEY WA 6165  
Being Lot 1 on Plan 24276 as depicted in Schedule 1.

#### **PRESCRIBED PREMISES CATEGORY**

Schedule 1 of the *Environmental Protection Regulations 1987*

CATEGORY NUMBER	CATEGORY DESCRIPTION	CATEGORY PRODUCTION OR DESIGN CAPACITY
53	Flyash disposal: premises on which flyash is disposed of.	1 000 cubic metres or more per day

#### **CONDITIONS**

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

Date signed: 9 February 2016

.....

**Caron Goodbourn**

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

**ISSUE DATE** Thursday, 15 August 2013  
**COMMENCEMENT DATE:** Tuesday, 20 August 2013  
**EXPIRY DATE:** Sunday, 19 October 2018  
**AMENDMENT DATE:** Thursday, 11 February 2016

# **CONDITIONS OF LICENCE**

## ***Environmental Protection Act 1986***

**LICENCE NUMBER:** L4193/1989/12

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### **DEFINITIONS**

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

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

**'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*;

**'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](mailto:info@der.wa.gov.au)

**'Licence'** means this Licence numbered L4193/1989/12 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;

**'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; and

**'Schedule 2'** means Schedule 2 of this Licence unless otherwise stated.

# **CONDITIONS OF LICENCE**

## ***Environmental Protection Act 1986***

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### **GENERAL CONDITIONS**

- 1) The Licensee shall provide to the Director, by 1 December in each year, annual environmental report for the period beginning 1 November the previous year and ending on 31 October in that year including:
  - (a) Condition 9 in regard to groundwater monitoring data; and
  - (b) Condition 12 for a review of the effectiveness of the extraction program.The annual report must assess and provide a detailed review of movement of the groundwater plume and whether the plume characteristics have changed.
- 2) The Licensee shall only store flyash slurry and bottom ash, from the Kwinana Power Station, at the Perron Quarry Ash Disposal Facility located within the Premises.
- 3) The Licensee shall only dispose of ash wastes referred to in Condition 2 within banded disposal areas to prevent the unconstrained spread of these materials across the site or across any boundary of the Premises.
- 4) The Licensee shall by 1<sup>st</sup> December in each year, provide to the Director an annual audit compliance report in the form in Schedule 2 to this licence, signed and certified in the manner required by Section C to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which this Licensee has complied with the conditions of this Licence, and any previous licence issued under Part V of the Act for the Premises, during the period beginning 1<sup>st</sup> November the previous year and ending on 31<sup>st</sup> October in that year.

### **AIR POLLUTION CONTROL CONDITIONS**

#### **DUST – GENERAL REQUIREMENT**

- 5) The Licensee shall minimise the generation of dust from the ash disposal area using appropriate dust suppression techniques, including water sprays and sprinklers.

### **WATER POLLUTION CONTROL CONDITIONS**

#### **GROUNDWATER RECOVERY BORES**

- 6) The Licensee shall recover groundwater from at least two of the extraction bores EB1, EB2, EB3 and EB4, located as shown in Schedule 1, to contain the extent of, and reduce the concentration of, contamination in the groundwater caused by the Perron Quarry Ash Disposal Facility.

#### **GROUNDWATER MONITORING**

- 7) The Licensee shall maintain 17 groundwater monitoring bores as specified in Table 1 of Condition 9. Each monitoring bore location shall be capable of obtaining representative groundwater samples from three depths within the superficial aquifer as follows or as specified in Condition 9.
  - (a) From within 8 meters above the base of the superficial aquifer;
  - (b) Between 8 and 16 meters above the base of the superficial aquifer; and
  - (c) Between the aquifer surface and 16 meters above the base of the superficial aquifer.

# CONDITIONS OF LICENCE

## *Environmental Protection Act 1986*

**LICENCE NUMBER:** L4193/1989/12

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- 8) The Licensee shall conduct a program to monitor the impacts of the Licensees operations on groundwater; the program shall include:
- (a) Estimating the quantity of water delivered to the Premises;
  - (b) Measuring the quantity of groundwater recovered and exported from the site on a monthly basis, with the use of flow meter measurements or other method as approved by the Director;
  - (c) Constructing contour plots of elevations of the water table and of potentiometric heads in the lower part of the superficial aquifer;
  - (d) Analysing the long term trends in groundwater chemistry exhibited;
  - (e) Production on plans depicting groundwater salinity contours in the vicinity of the Perron Quarry;
  - (f) Production on plans depicting groundwater TDS contours in the vicinity of the Perron Quarry; and
  - (g) Measuring the parameters from each of the locations at the frequency and collection time, as specified in Table 1.

**Table 1: Perron Quarry Groundwater Monitoring Program**

Sample locations	Parameters measured <sup>(3)</sup>	Frequency	Sample collection time
Groundwater monitoring bores: B, C, D, E, F, G, H I, KR, L, M, N, OR, P <sup>(1)</sup> , PR <sup>(2)</sup> , Y and Z as specified in Condition 8 and Schedule 1	SWL <sup>(4)</sup> , pH, TDS, Na, Cl, NO <sub>3</sub> , SO <sub>4</sub> , Al, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Zn and As.	Six Monthly	April and October
Extraction bores: EB1, EB2, EB3 and EB4. As specified in Condition 7 and Schedule 1			
Slurry-transport waters delivered to the Premises	pH, TDS, Na, Cl, NO <sub>3</sub> , SO <sub>4</sub> , Al, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, Zn and As.		

Note 1: Excludes depth specified in Condition 8)a.

Note 2: Excludes depths specified in Conditions 8)a and 8)b.

Note 3: The standing water level (SWL) shall be measured prior to any pumping or sampling of the bore.

Note 4: With the exception of pH and SWL, all measurements are to be reported in mg/L.

- 9) The Licensee shall collect and preserve all samples of groundwater and slurry-transport waters in accordance with Australian Standard AS 5447.1.
- 10) The Licensee shall submit all laboratory samples obtained in accordance with Table 1 of Condition 9 to a laboratory with current NATA accreditation for the parameters to be measured.

### EXTRACTION PROGRAM

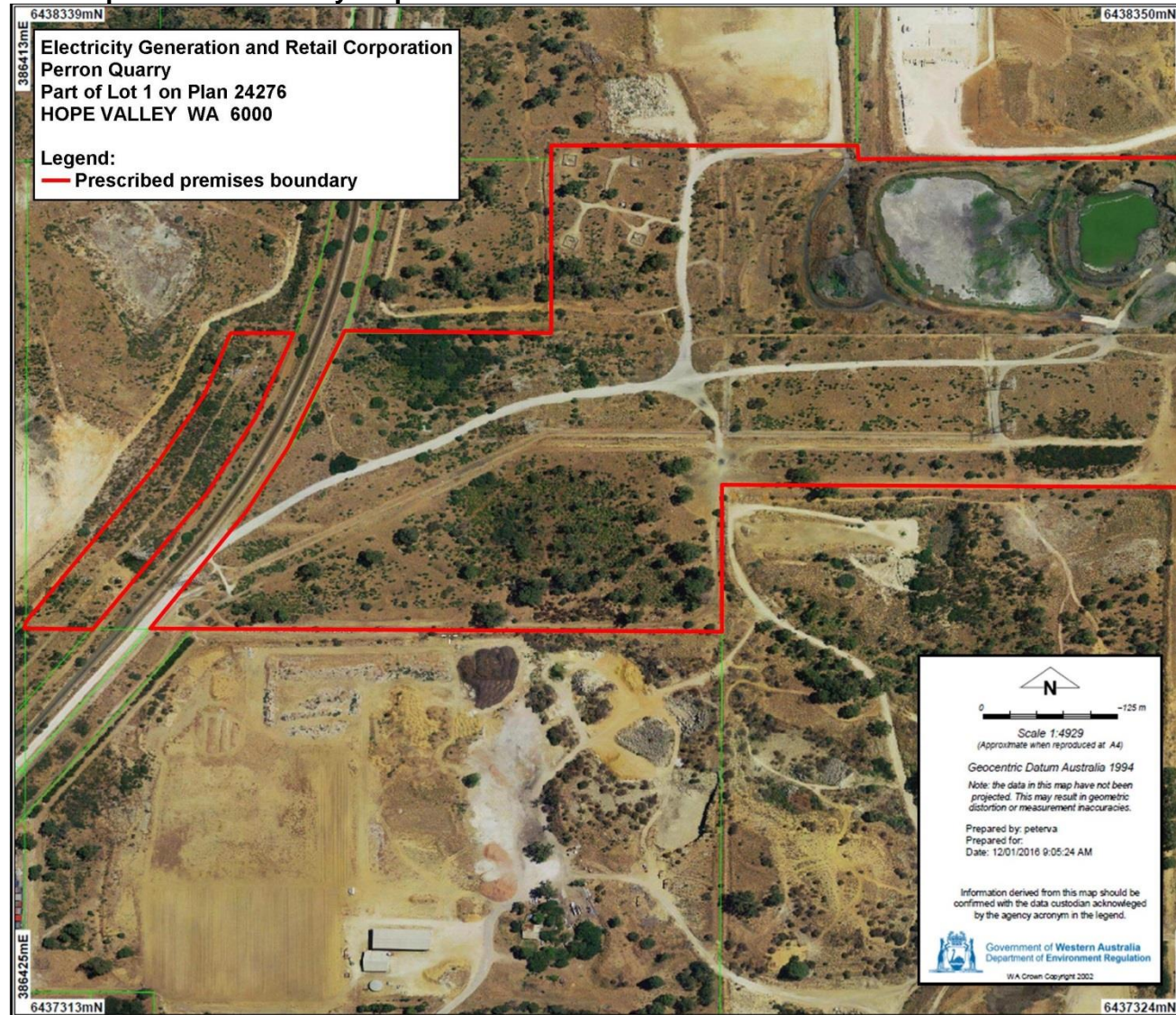
- 11) The Licensee shall review the location of the extraction bores and the extraction program annually to ensure that the extraction program is effective and that market gardeners or any other users of groundwater, are not adversely affected by the contamination or the contamination recovery process.

## SCHEDULE 1

LICENCE NUMBER: L4193/1989/12

FILE NUMBER: 2010/003826

Perron Quarry: prescribed premises boundary map.

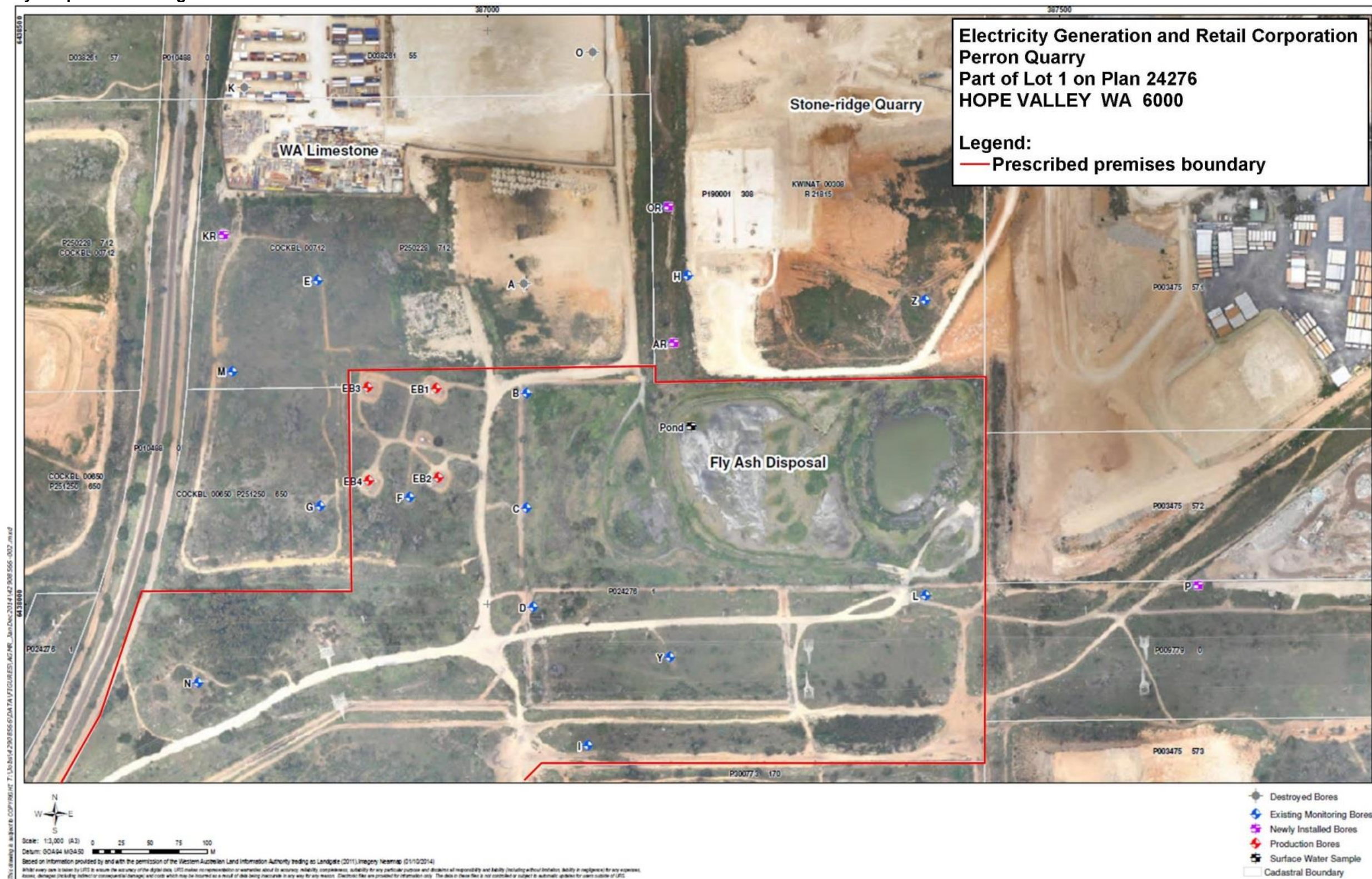


AMENDMENT DATE: Thursday, 11 February 2016

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Perron Quarry: map of monitoring locations.



SYNERGY

MONITORING BORE  
LOCATIONS

**URS**

**PERRON QUARRY**

File No: 42908566-002.mxd Drawn: RNM Approved: WNB Date: 18/11/2014

Figure: 2  
Rev: A A3

## SCHEDULE 2

# 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:

SEAL (if signing under seal)



## SCHEDULE 2

### SECTION B

#### DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

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

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

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

Initial:

SEAL (if signing under seal)



## SCHEDULE 2

### 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: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

**SEAL (if signing under seal)**

SEAL (if signing under seal)



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:**      **Electricity Generation and Retail Corporation**

**Licence:**        **L4193/1989/12**

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**Registered office:**    219 St Georges Terrace  
PERTH WA 6000

**Premises address:**    Synergy Perron Quarry  
Lot 1 on Plan 24276  
HOPE VALLEY WA 6000  
Being Lot 1 on Plan 24276 as depicted in Schedule 1.

**Issue date:**            Thursday, 15 August 2013

**Commencement date:** Tuesday, 20 August 2013

**Expiry date:**           Sunday, 19 October 2018

### **Decision**

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

Decision Document prepared by:

Peter van Schoubroeck  
Licensing Officer

Decision Document authorised by:

Caron Goodbourn  
Delegated Officer



## Contents

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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>
	53	Not applicable
Application verified	Date: Not applicable	
Application fee paid	Date: Not applicable	
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	None applicable	
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 checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:
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"/> <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

The Synergy Perron Quarry (SPQ) is occupied by Electricity Generation and Retail Corporation (trading as Synergy). SPQ is a historic limestone quarry Located in the Kwinana general industrial area about 2.2 kilometres waste of Cockburn Sound. SPQ has been used as a flyash and slurry disposal facility by Synergy (and predecessors) since the early 1980s.

SQP is currently not operation and does not accept any waste (flyash or slurry). Under care and maintenance dust management, groundwater monitoring and groundwater abstraction activities are being undertaken.

Electricity Generation and Retail Corporation may consider surrender of Licence L4193/1989/12 (under Section 59A(2)(e) of the *Environmental Protection Act 1986*) at a later date.

This Decision Document is for the amendment of Licence L4193/1989/12 issued 11 February 2016 and includes the following administrative amendments:

- Change to the name of the Licensee (previously Electricity Generation Corporation t/a Verve Energy) and registered company address (the company entity remains the same, with the Australian Business Number 58 673 830 106);
- Addition, deletion and amendment of definitions in the Licence to ensure standard terminology and definitions for the correct referencing of terminology and correspondence details under the Licence;
- Amendment of all Licence condition numbering to a chronological format;
- Amendment of all references to Licence condition numbering and Licence attachments within the Licence conditions to maintain accuracy of referencing in the Licence conditions;
- Deletion of condition A1(b) under the previous licence version, the condition is redundant and covered by the provisions of Section 49 of the *Environmental Protection Act 1986*; and
- Replacement of Premises maps within the Licence to ensure details are clear and legible.

No assessment of any operations or the risks posed by any potential emissions at the Premises has been undertaken as part of this administrative amendment. Any resumption of operations at the Premises and the current care and maintenance practices being undertaken should be subject to a risk assessment and review of the Licence conditions.

### 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	Justification (including risk description & decision methodology where relevant)	Reference documents
Definitions	N/A	<b>Operation</b> The following administrative amendments have been made: <ul style="list-style-type: none"><li>• Definition of 'Act' inserted, references to new definition for 'Licence';</li><li>• Definition of 'Approval or Approved' deleted, definition is redundant;</li><li>• Definitions for 'Director' amended to 'CEO' with current correspondence details inserted;</li><li>• Definition of 'Licensed' deleted, replaced by definitions for 'Licence ' and 'Licensee';</li><li>• Definition of 'Premises' amended for accurate referencing; and</li><li>• Definitions of 'Schedule 1' and Schedule 2; inserted to maintain accurate referencing within the Licence conditions.</li></ul>	General provisions of the <i>Environmental Protection Act 1986</i>
General conditions	L1, L3 and L4.	<b>Operation</b> The following administrative amendments have been made: <ul style="list-style-type: none"><li>• Conditions 1, 2 and 3 amended to ensure accurate reference to chronological condition numbering and schedules within the Licence.</li></ul>	General provisions of the <i>Environmental Protection Act 1986</i>
Air pollution control conditions	L5	<b>Operation</b> The following administrative amendments have been made: <ul style="list-style-type: none"><li>• Condition 5 amended with 'and' replacing and apostrophe between 'sprays' and 'sprinklers' for proper sentence structure.</li><li>• Deletion of condition A1(b) under the previous licence version, the condition is redundant and covered by the provisions of Section 49 of the <i>Environmental Protection Act 1986</i>.</li></ul>	General provisions of the <i>Environmental Protection Act 1986</i>
Water pollution control conditions	L7, L8, L9 and L11	<b>Operation</b> The following administrative amendments have been made: <ul style="list-style-type: none"><li>• Conditions 7, 8, 9 (Table 1) and 11 amended to ensure accurate reference to chronological condition numbering and schedules within the Licence.</li></ul>	General provisions of the <i>Environmental Protection Act 1986</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Licence Duration	N/A	Licence L4193/1989/12 expires on 19 October 2018. No changes to the Licence duration have been made or are required as part of this amendment process.	None applicable

## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
14/01/2016	Proponent sent a copy of draft instrument	None	
15/02/2016	Instrument issue was advertised in West Australian		



## 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