



MAJOR Amendment Notice #1

Licensee	EMR Golden Grove Pty Ltd
ACN	114 868 325
Licence Number	L8593/2011/2
File Number:	2011/007842
Premises	Scuddles & Gossan Hill Mine M59/3, M59/90, M59/195, M59/227, M59/361, M59/362, G59/19-23, G59/24, L59/22, L59/26 and L59/41 YALGOO, WA 6635
Date of amendment	21 April 2017

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. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act and follows.

Date signed: 20 April 2017

Alana Kidd

Manager Licensing – Resource Industries

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

Amendment Notice

This amendment is made pursuant to 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.

This notice is limited only to an amendment for Category 61 to increase the capacity and also a change of name of the Licensee. No changes to the aspects of the licence have been requested by the Licensee.

The following DER Guidance Statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles* (July 2015)
- *Guidance Statement: Setting Conditions* (October 2015)
- *Guidance Statement: Land Use Planning* (October 2015)
- *Guidance Statement: Licence Duration* (November 2015)
- *Guidance Statement: Decision Making* (February 2017)
- *Guidance Statement: Risk Assessment* (February 2017)
- *Guidance Statement: Environmental Siting* (November 2016)

Amendment Description

This Amendment Notice is the result of a Licensee initiated amendment to increase the capacity of Category 61: Liquid waste facility: premises on which liquid waste produced on other premises (other than sewage waste) is stored, reprocessed, treated or irrigated.

The Licensee accepts industrial washwater generated at their Port operations during export of product. The water is recycled back into the processing plant at the mine. Category 61 was added onto the licence via a licence amendment on 26 November 2015; however, the Licensee underestimated the volumes of wastewater returning for processing at the mine.

Table 1 below outlines the proposed changes to the licence.

Table 1: Proposed capacity changes requested in amendment

Category	Current Capacity	Proposed Capacity	Description of proposed amendment
61	1,000 tonnes per annual period	5,000 tonnes per annual period	The estimated annual throughput is 2,000 – 3,000 tonnes

The Licensee has also recently changed its name from MMG Golden Grove Pty Ltd to EMR Golden Grove Pty Ltd, this has also been updated as part of this amendment notice.

Location, environmental siting and potential receptors

Table 2 below lists the relevant sensitive land uses in the vicinity of the prescribed premises which may be receptors relevant to the proposed amendment.

Table 2: Receptors and distance from prescribed premises

Residential and sensitive premises	Distance from Prescribed Premises
Geraldton	275km west
Mullewa	140km west
Yalgoo	51km north-northwest (direct line)
Muralgarra Homestead (currently leased by EMR Golden Grove)	26km northeast
Badja Homestead	23km northwest

Table 3 below lists the relevant environmental receptors in the vicinity of the prescribed premises which may be receptors relevant to the proposed amendment.

Table 3: Environmental receptors and distance from prescribed premises

Environmental receptors	Distance from Prescribed Premises
Lake Wownaminy	27 km north

Risk assessment

Table 4 below describes the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. The table identifies whether the emissions present a material risk to human health or the environment, requiring regulatory controls.

Table 4: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	
Source/Activities		Potential Emissions	Potential Receptors	Potential Pathway					Potential Adverse Impacts
Cat 61 Liquid waste facility capacity increase	Port liquid washwater and sludges are accepted to the process water circuit at the mine site for reuse in the processing plant	Odour: associated with effluent handling	Nearest receptor is Badja Homestead, 23km northwest	Air	Health and amenity impacts	Slight	Rare	Low	No close receptor present and controlled waste is accepted from a licensed carrier through an enclosed pipeline into a concrete sump completely contained by the process plant bunding area, so odour emissions are not expected. There have been no complaints to date on existing operations.
		Waste: associated with pipeline leaks/spills or overtopping	Vegetation Groundwater	Direct discharge or seepage to groundwater	Adverse impacts to the health and survival of vegetation	Slight	Unlikely	Low	<p>The Delegated Officer has considered the following management measures are implemented by the Licensee:</p> <ul style="list-style-type: none">• Washwater is raw water with low levels of ore concentrate residue. No chemicals are used• The washwater is a controlled waste and is accepted from a licensed carrier through an enclosed pipeline into a concrete sump completely contained by the process plant bunding area <p>Groundwater is approximately 17 - 67 m below ground level so contamination is not expected to infiltrate, particularly with the high evaporation rates in the region.</p> <p>The increase in capacity is not substantial, from 1,000 tonnes up to 5,000 tonnes, with the expected throughput being 2,000 – 3,000 tonnes per annum.</p> <p>Condition 1.2.1 ensures that waste</p>

									<p>acceptance is limited to 5 000 tonnes per annual period and that the industrial wash water is only accepted into the concrete lined sump within the concrete bunded area of the process plant therefore limiting the potential for environmental impacts.</p> <p>The Delegated Officer considers that impacts from leaks/spills or overtopping will be slight as the pipelines are all located onsite (so offsite impacts are not expected) and impacts would be expected to be minimal. The Delegated Officer has considered the operator controls and considers the likelihood of an occurrence to be unlikely. The risk rating for leaks/spills or overtopping is therefore low.</p>
--	--	--	--	--	--	--	--	--	---

Decision

The Delegated Officer has determined that the key emissions associated with the increase in the Category 61 liquid waste facility capacity to be discharges to land from leaks/spills and overtopping. The Delegated Officer considers that the risks associated with these emissions are low due to the quality of the washwater and the Licensee's controls in place.

No additional conditions are required on the licence.

Definitions and reporting conditions have been updated in line with recent administrative changes implemented within DER.

Improvement program condition 4.1.1 IR1 was also removed during this amendment, as the required report was submitted by the Licensee on 10 January 2017 and DER provided a response on 14 February 2017, acknowledging the vegetation monitoring program and shallow drilling program would be completed by 2018.

Amendment History

Table 5 provides the amendment history for L8593/2011/2.

Table 5: Licence amendments

Instrument	Issued	Amendment
L8593/2011/2	26/11/2015	Licence amendment to add Category 61: Liquid waste facility as wash water generated at the port is reused back at the mine site in the processing plant, TSF 1 and 2 were removed from the containment infrastructure table as they have been decommissioned
L8593/2011/2	22/09/2016	Licence amendment to increase Total Dissolved Solids limit in ambient groundwater due to exceedances and implement Improvement Conditions to address management of the seepage issue from Evaporation Pond A Addition of construction conditions for the TSF3 lift
L8593/2011/2	21/04/2017	Amendment Notice #1 for increase in Category 61 capacity and change of name of Licensee

Licensee's Comments

The Licensee was provided with the draft Amendment Notice on 6 April 2017. Comments received from the Licensee have been considered by the Delegated Officer as shown in Appendix 2.

Amendment

1. General condition 1.1.2 definitions are amended by the insertion of the bold text shown in underline below:

'Annual Audit Compliance Report' means a report in a format approved by the CEO as presented by the Licensee or as specified by the CEO from time to time and published on the Department's website;

2. The Licensee is modified from:

MMG Golden Grove Pty Ltd to **EMR Golden Grove Pty Ltd**

3. Condition 1.2.1 of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

- 1.2.1 The Licensee shall only accept waste on to the Premises if:
- (a) it is of a type listed in Table 1.2.1;
 - (b) the quantity accepted is below any quantity limit listed in Table 1.2.1; and
 - (c) it meets any specification listed in Table 1.2.1.

Table 1.2.1: Waste acceptance			
Waste	Waste Code	Quantity limit	Specification ¹
Industrial wash water	L150	4 000 5 000 tonnes per annual period	Tankered into the premises and discharged into concrete lined sump in bunded processing plant via an enclosed pipeline.

Note 1: Additional requirements for the acceptance of controlled waste are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

4. Condition 4.1.1 of the licence is amended by the deletion of the text shown in strikethrough below and the insertion of the bold text shown in underline below:

- 4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date of completion in Table 4.1.1.

Table 4.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licensee shall submit to the CEO a report, with associated timeframes for completion, on measures to be taken to prevent further contamination of the groundwater from the Evaporation Pond A.	31 January 2017
IR2 <u>1</u>	The Licensee shall submit to the CEO a report, with associated timeframes for completion, on a reassessment of the current criteria being used to compare mine dewatering water discharge to Lake Wownaminy using the methodologies for developing site specific environmental water quality criteria set out in the ANZECC 2000 water quality guidelines. A limit for Mercury should also be investigated, recommended and actioned.	30 June 2017

5. Condition 5.1.2 of the licence is amended by the insertion of the bold text shown in underline below:
- 5.1.2 The Licensee must submit to the CEO within 90 days after the Anniversary Date, **an Annual Audit** Compliance Report indicating the extent to which the Licensee has complied with the Conditions in this Licence for the Annual Period.

Appendix 1: Key Documents

	Document Title	In text ref	Availability
1	Licence L8593/2011/2 – Scuddles & Gossan Hill Mine	L8593/2011/2	accessed at http://www.der.wa.gov.au
2	DER, July 2015. <i>Guidance Statement: Regulatory principles</i> . Department of Environment Regulation, Perth.	DER 2015a	accessed at http://www.der.wa.gov.au
3	DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	DER 2015b	
4	DER, August 2016. <i>Guidance Statement: Licence duration</i> . Department of Environment Regulation, Perth.	DER 2016a	
5	DER, November 2016. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	DER 2016b	
6	DER, November 2016. <i>Guidance Statement: Decision Making</i> . Department of Environment Regulation, Perth.	DER 2016c	

Appendix 2: Summary of Licensee comments

The Licensee was provided with the draft Amendment Notice on 6 April 2017 for review and comment. The Licensee responded on 16 April 2017 waiving the remaining comment period. No comments were submitted on the draft Amendment Notice.

Comments received	DER consideration of risk
N/A	N/A