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**AGL UPSTREAM INVESTMENTS PTY LTD  
ROSALIND PARK GAS PLANT  
Air Monitoring Report**

Reporting Period: May 2014

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## Foreword

<b>PREMISES</b>	Rosalind Park Gas Plant Lot 35 Medhurst Road GILEAD NSW 2560
<b>LICENCE DETAILS</b>	<a href="#"><u>Environment Protection Licence 12003</u></a>
<b>LICENCEE</b>	AGL Upstream Investments Pty Limited
<b>LICENCEE'S ADDRESS</b>	Locked Bag 1837, North Sydney, NSW 2060
<b>REPORTING PERIOD</b>	01 May 2014 to 31 May 2014
<b>DATE of MONITORING</b>	Continuous
<b>OBTAINED DATA DATE</b>	11 June 2014
<b>REPORT DATE</b>	19 June 2014
<b>REPORT PREPARED BY</b>	Aaron Clifton Environmental Manager

### **SUMMARY OF ACTIVITY**

Rosalind Park Gas Plant, located approximately 60km south west of Sydney, is a natural gas processing and treatment plant, used to process coal seam natural gas from the Camden Gas Project.

Produced natural gas is cleaned, dehydrated, compressed and odourised before being measured and transported by pipeline about 500 metres into the nearby Moomba to Sydney Natural Gas Pipeline. The premises covered by this Environment Protection Licence also includes all gas wells, gas gathering, reticulation systems, trunk lines and associated effluent storage areas and work areas of the Camden Gas Project.

This Monitoring Report relates to those air monitoring activities specified in Part 5, Monitoring and Recording Conditions, of the Environment Protection Licence. The



Licence conditions stipulate air monitoring is required to be carried out at the locations, at the frequency and using the test methods as set out in the tables below.

This report sets out the results of continuous monitoring summarized on a monthly basis. A separate report is issued for quarterly monitoring.

This report is prepared in accordance with the *Requirements for Publishing Pollution Monitoring Data* (EPA, October, 2013) (**Publication Requirements**).

## AIR MONITORING LOCATIONS

Point	Location	Monitoring Frequency
1	Exhaust Stack 1 on Compression Engine 1	Continuous
2	Exhaust Stack 2 on Compression Engine 2	Continuous
3	Exhaust Stack 3 on Compression Engine 3	Continuous

Note: monitoring is only undertaken when the compression engines are running.

## AIR MONITORING TEST METHODS

Parameter	Concentration Limit	NSW EPA Test Method (Sampling Method)	Reference Method
Oxides of Nitrogen	461mg/m <sup>3</sup> (at 7% O <sub>2</sub> )	CEM-2	USEPA Performance Specification 2
Temperature	N/A	TM-2	USEPA Method 2
Moisture content	N/A	Method approved by EPA in writing	Calibration by reference to TM-22
Volumetric Flow Rate	N/A	CEM-6	USEPA Performance Specification 6
Oxygen	N/A	CEM-3	USEPA Performance Specification 3

USEPA Method refers to the US Environmental Protection Agency 2000, Code of Federal Regulations, Title 40, Part 60, Appendix A Methods.

USEPA Performance Specification refers to the US Environmental Protection Agency 2000, Code of Federal Regulations, Title 40, Part 60, Appendix B, Performance Specifications.

## Air Monitoring Results

Continuous monitoring results are based on test results obtained over a one-hour averaging period as set out in Schedule 5 of the *Protection of the Environment Operations (Clean Air) Regulation 2010 (NSW)*.

Monitoring Point	Description	Pollutant	Units of measure	Oxygen correction	Sampling method	Monitoring frequency required by licence	Number of times measured during sampling period	Minimum value	Average value	Maximum value
1	Compressor Engine 1	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	<i>Compressor Engine was not operating from 1 to 31 May 2014.</i>	-	-	-
		Temperature	degrees Celsius		TM-2	Continuous		-	-	-
		Moisture	percent		Method approved by EPA	Continuous		-	-	-
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous		-	-	-
		Oxygen	percent		CEM-3	Continuous		-	-	-
2	Compressor Engine 2	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	<i>Compressor Engine 2 operated from 1-20 and 23-31 May 2014. The CEMS of Compressor Engine 2 was operating for 45 minutes of every one hour period. The remaining 15 minute period was down time for cleaning purposes. See Note 1.</i>	50.1	95.6	159.3
		Temperature	degrees Celsius		TM-2	Continuous		453.5	499.4	513.5
		Moisture	percent		Method approved by EPA	Continuous		See Note 1	See Note 1	See Note 1
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous		See Note 1	See Note 1	See Note 1
		Oxygen	percent		CEM-3	Continuous		0.0	0.5	1.7
3	Compressor Engine 3	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	<i>Compressor Engine 3 operated from 1-31 May 2014. The CEMS of Compressor Engine 3 was operating for 45 minutes of every one hour period. The remaining 15 minute period was down time for cleaning purposes. See Note 2.</i>	49.2	202.2	270.9
		Temperature	degrees Celsius		TM-2	Continuous		443.0	518.6	524.6
		Moisture	percent		Method approved by EPA	Continuous		See Note 2	See Note 2	See Note 2
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous		See Note 2	See Note 2	See Note 2
		Oxygen	percent		CEM-3	Continuous		0.5	0.6	1.0

## Air Monitoring Results

Emission Testing Consultants has been engaged by AGL to undertake independent monitoring each month in accordance with condition U1 of EPL 12003. Results for monitoring undertaken by Emission Testing Consultants (Report 140240r) on 09 May 2014 are as follows:

Monitoring Point	Description	Pollutant	Units of measure	Oxygen correction	Sampling method	Monitoring frequency required by licence	Result
1	Compressor Engine 1	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	Not applicable	No Result*
		Temperature	degrees Celsius		TM-2	Not applicable	No Result*
		Moisture	percent		TM-22	Not applicable	No Result*
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable	No Result*
		Oxygen	percent		TM-25	Not applicable	No Result*
2	Compressor Engine 2	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	Not applicable	180
		Temperature	degrees Celsius		TM-2	Not applicable	502
		Moisture	percent		TM-22	Not applicable	17
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable	1.1
		Oxygen	percent		TM-25	Not applicable	0.52
3	Compressor Engine 3	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	Not applicable	330
		Temperature	degrees Celsius		TM-2	Not applicable	481
		Moisture	percent		TM-22	Not applicable	17
		Volumetric flow rate	cubic metres per second		TM-2	Not applicable	1.1
		Oxygen	percent		TM-25	Not applicable	0.50

\*Due to mechanical issues, Compressor Engine 1 was not operating on 09 May 2014.



**Notes:**

1. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following table lists the data points that have not been included for Monitoring Point 2 (Compressor #2 exhaust stack) as AGL knows that the data collected is incorrect. The data is incorrect because the component of the equipment measuring the relevant parameter has either failed or was not operating. AGL has taken and is currently taking actions to rectify the issue (e.g. replacement of failed components of measuring equipment).

<b>Date</b>	<b>Approximate total hours</b>	<b>Pollutant</b>
01-20, 23-31 May 2014	646	Volumetric Flow Rate, Moisture
15 and 24 May 2014	4	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)
19 and 20 May 2014	10	Oxygen, Temperature, Oxides of Nitrogen (as NO <sub>2</sub> equivalent)

2. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following table lists the data points that have not been included for Monitoring Point 3 (Compressor #3 exhaust stack) as AGL knows that the data collected is incorrect. The data is incorrect because the component of the equipment measuring the relevant parameter has either failed or was not operating. AGL has taken and is currently taking actions to rectify the issue (e.g. replacement of failed components of measuring equipment).

<b>Date</b>	<b>Approximate total hours</b>	<b>Pollutant</b>
01-31 May 2014	655	Volumetric Flow Rate, Moisture
15, 16, 17, 21, 22, 28, 30, 31 May 2014	73	Oxygen, Temperature, Oxides of Nitrogen (as NO <sub>2</sub> equivalent)