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

Reporting Period: November 2014

AGL Upstream Investments Pty Ltd  
ABN 58 115 063 744  
Locked Bag 1837, St Leonards NSW 2065  
Level 22, 101 Miller Street, North Sydney NSW 2060  
Telephone: 02 9921 2999 Facsimile: 02 9921 2474  
Complaints Line (24 hours): 02 9963 1318



# Foreword

<b>PREMISES</b>	Rosalind Park Gas Plant Lot 35 Medhurst Road GILEAD NSW 2560
<b>LICENCE DETAILS</b>	<a href="#">Environment Protection Licence 12003</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 November 2014 to 30 November 2014
<b>DATE of MONITORING</b>	Continuous
<b>OBTAINED DATA DATE</b>	08 December 2014
<b>REPORT DATE</b>	16 December 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 are covered by Environment Protection Licence 12003 which 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 – POINTS 1, 2 and 3

Parameter	NSW EPA Test Method (Sampling Method)	Reference Method
Oxides of Nitrogen	CEM-2	USEPA Performance Specification 2
Temperature	TM-2	USEPA Method 2
Moisture content	Method approved by EPA in writing	Calibration by reference to TM-22
Volumetric Flow Rate	CEM-6	USEPA Performance Specification 6
Oxygen	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	Concentration Limit
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 30 November 2014.</i>	-	-	-	461
		Temperature	Degrees Celsius		TM-2	Continuous		-	-	-	Not applicable
		Moisture	Percent		Method approved by EPA	Continuous		-	-	-	Not applicable
		Volumetric flow rate	Cubic metres per second		CEM-6	Continuous		-	-	-	Not applicable
		Oxygen	Percent		CEM-3	Continuous		-	-	-	Not applicable
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 1-30 November 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>	42.25	124.07	152.42	461
		Temperature	Degrees Celsius		TM-2	Continuous		447.42	501.24	518.14	Not applicable
		Moisture	Percent		Method approved by EPA	Continuous		See Note 1	See Note 1	See Note 1	Not applicable
		Volumetric flow rate	Cubic metres per second		CEM-6	Continuous		See Note 1	See Note 1	See Note 1	Not applicable
		Oxygen	Percent		CEM-3	Continuous		0.47	0.51	0.63	Not applicable
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 1-30 November 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>	51.77	110.56	151.15	461
		Temperature	Degrees Celsius		TM-2	Continuous		410.79	514.18	522.50	Not applicable
		Moisture	Percent		Method approved by EPA	Continuous		See Note 2	See Note 2	See Note 2	Not applicable
		Volumetric flow rate	Cubic metres per second		CEM-6	Continuous		See Note 2	See Note 2	See Note 2	Not applicable
		Oxygen	Percent		CEM-3	Continuous		0.53	0.59	0.88	Not applicable

## Air Monitoring Results

Emission Testing Consultants has been engaged by AGL to undertake independent monitoring each month. Results for monitoring undertaken by Emission Testing Consultants (Report R000149r) on 14 November 2014 are as follows:

Monitoring Point	Description	Pollutant	Units of measure	Oxygen correction	Sampling method	Result
1	Compressor Engine 1	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	No Result*
		Temperature	degrees Celsius		TM-2	No Result*
		Moisture	percent		TM-22	No Result*
		Volumetric flow rate	cubic metres per second		TM-2	No Result*
		Oxygen	percent		TM-25	No Result*
2	Compressor Engine 2	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	140
		Temperature	degrees Celsius		TM-2	500
		Moisture	percent		TM-22	21
		Volumetric flow rate	cubic metres per second		TM-2	1.0
		Oxygen	percent		TM-25	0.78
3	Compressor Engine 3	Oxides of Nitrogen (as NO <sub>2</sub> equivalent)	milligrams per cubic metre	7% oxygen	TM-11	150
		Temperature	degrees Celsius		TM-2	504
		Moisture	percent		TM-22	21
		Volumetric flow rate	cubic metres per second		TM-2	0.96
		Oxygen	percent		TM-25	0.78

\*Due to mechanical issues, Compressor Engine 1 was not operating on 14 November 2014.



**Notes:**

1. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following data points have not been included for Monitoring Point 2 (Compressor #2 exhaust stack) as AGL knows that the data has been unable to be collected or is incorrect.

<b>Date</b>	<b>Approximate total hours</b>	<b>Pollutant</b>	<b>Justification</b>
1-30 November 2014	706	Volumetric Flow Rate, Moisture	Data unable to be collected due to component failure. AGL has been unable to repair the failed component and is trialing alternative monitoring methods in consultation with the EPA.
04 and 16 November 2014	2	Oxides of Nitrogen, Oxygen, Temperature	Data unable to be collected due to component failure. AGL was able to repair the failed component.
14 and 23 November 2014	2	Oxides of Nitrogen	Data unable to be collected due to component failure. AGL was able to repair the failed component.

2. In accordance with Section 3.4.1 of the EPA Publication Requirements, the following data points have not been included for Monitoring Point 3 (Compressor #3 exhaust stack) as AGL knows that the data has been unable to be collected or is incorrect.

<b>Date</b>	<b>Approximate total hours</b>	<b>Pollutant</b>	<b>Justification</b>
1-30 November 2014	694	Volumetric Flow Rate, Moisture	Data unable to be collected due to component failure. AGL has been unable to repair the failed component and is trialing alternative monitoring methods in consultation with the EPA.
12 November 2014	1	Oxides of Nitrogen, Oxygen, Temperature	Data unable to be collected due to component failure. AGL was able to repair the failed component.
14 November 2014	1	Oxides of Nitrogen	Data unable to be collected due to component failure. AGL was able to repair the failed component.