

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

Reporting Period: March 2013

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Foreword

PREMISES Rosalind Park Gas Plant

Lot 35 Medhurst Road GILEAD NSW 2560

LICENCE DETAILS Environment Protection Licence 12003

LICENCEE AGL Upstream Investments Pty Limited

LICENCEE'S ADDRESS Locked Bag 1837, North Sydney, NSW 2060

REPORTING PERIOD 01 March to 31 March 2013

REPORT DATE 07 June 2013 (version 1)

REPORT PREPARED BY 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, March 2012) (**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	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	TM-22	USEPA Method 4		
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).

A new replacement CEMS was commissioned in Compressor Engine 1 on 15 March 2013 and AGL has used this new CEMS for monitoring point 1 from 15 to 31 March 2013. The data in columns 9 to 11 of the table below relate to the results from the new CEMS in point 1 for 15 to 31 March 2013 and the results using the TESTO system before the installation of the new CEMS for 1-14 March 2013.

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	1 Compressor Engine 1 milligrams per Oxides of Nitrogen cubic metre		7% oxygen	CEM-2	Continuous	The CEMS of Compressor Engine 1 was operating for 45	143	235	425	461	
		Temperature	degrees Celsius		TM-2	Continuous	minutes of every one hour period. The remaining 15 minute	350	364	408	
		Moisture	percent		TM-22	Continuous	period was down time	See Note 1	See Note 1	See Note 1	
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous	for cleaning purposes. See Note 1	See Note 1	See Note 1	See Note 1	
		Oxygen	percent		CEM-3	Continuous		9.37	10.55	12.01	
2	Compressor Engine 2	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	The CEMS of Compressor Engine 2 was operating for 45	56	100	204	461
		Temperature	degrees Celsius		TM-2	Continuous	minutes of every one hour period. The remaining 15 minute period was down time for cleaning purposes. See Note 2.	384	432	509	
		Moisture	percent		TM-22	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		0.40	0.84	2.55	



3	Compressor Engine 3	Oxides of Nitrogen	milligrams per cubic metre	7% oxygen	CEM-2	Continuous	The CEMS of Compressor Engine 3	70	113	132	461
	Liigille 5			7 70 Oxygen			was operating from	-	_		401
		Temperature	degrees Celsius		TM-2	Continuous	1-3 March for 45	306	502	516	
		Moisture	percent		TM-22	Continuous	minutes of every one	See Note 3	See Note 3	See Note 3	
		Volumetric flow rate	cubic metres per second		CEM-6	Continuous	hour period. The remaining 15 minute period was down time	See Note 3	See Note 3	See Note 3	
							for cleaning purposes.				
		Oxygen	percent		CEM-3	Continuous	See Note 3.	0.55	0.62	1.20	



Notes:

In accordance with Section 3.4.1 of the EPA Publication Requirements, the
following data points have not been included for Monitoring Point 1
(Compressor #1 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).

	Approximate total	
Date	hours	Pollutant
01, 04-31.03.2013		
	630	Volumetric Flow Rate, Moisture
15.03.2013 to	18	Oxides of Nitrogen and Oxygen
31.03.2013		
15.03.2013 to	13	Oxides of Nitrogen
19.03.2013		
27-28.03.2013	3	Temperature, Oxides of Nitrogen
		and Oxygen

2. 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 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).

	Approximate total				
Date	hours	Pollutant			
01.03.2013 to					
31.03.2013	738	Volumetric Flow Rate, Moisture			
15,17,18,31.03.2013	19	Oxides of Nitrogen			
01,04,06,11,13.03.2013	5	Oxides of Nitrogen and Oxygen			

3. 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 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).

	Approximate total	
Date	hours	Pollutant
01.03.2013 to		
03.03.2013	64	Volumetric Flow Rate, Moisture