

AGL UPSTREAM INVESTMENTS PTY LTD CAMDEN GAS PROJECT

Monthly Continuous Air Monitoring Report

Reporting Period: June 2020

AGL Upstream Investments Pty Ltd

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Foreword

| | |
|---------------------------|--|
| PREMISES | Rosalind Park Gas Plant Lot 35 Medhurst Road GILEAD NSW 2560 |
| LICENCE DETAILS | <u>Environment Protection Licence 12003</u> |
| LICENCEE | AGL Upstream Investments Pty Limited (AGL) |
| LICENCEE'S ADDRESS | Locked Bag 3013, Australia Square, NSW 1215 |
| REPORTING PERIOD | 01 June 2020 to 30 May 2020 |
| DATE OF MONITORING | Continuous |
| DATE DATA OBTAINED | 07 July 2020 (Ecotech Report DAT15962) |
| REPORT DATE | 09 July 2020 |
| REPORT PREPARED BY | David Mudd, Environment Business Partner |

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 Environment Protection Licence (EPL) 12003. 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

| EPA Monitoring Point | Location | Monitoring Frequency* |
|----------------------|--|-----------------------|
| 1 | Exhaust Stack 1 on Compressor Engine 1 | Continuous |

*Monitoring is only undertaken when the compression engine is running.

AIR MONITORING TEST METHOD – POINT 1

| 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 license | Number of times measured during sampling period | Minimum Value | Average Value | Maximum Value | Concentration Limit |
|------------------|--|--|----------------------------|-------------------|------------------------|--|--|---------------|---------------|---------------|---------------------|
| 1 | Exhaust Stack 1 on Compressor Engine 1 | Oxides of Nitrogen (as NO ₂ equivalent) | Milligrams per cubic metre | 7% oxygen | CEM-2 | Continuous | 1 minute readings averaged to 1 hour intervals. Hourly averages based on minimum 75% valid data. | 207 | 297 | 404 | 461 |
| | | Temperature | Degrees Celsius | | TM-2 | Continuous | | 306 | 318 | 330 | Not applicable |
| | | Moisture | Percent | | Method approved by EPA | Continuous | | 5.1 | 6.3 | 7.1 | Not applicable |
| | | Volumetric flow rate | Cubic metres per second | | CEM-6 | Continuous | | 2.9 | 3.0 | 3.1 | Not applicable |
| | | Oxygen | Percent | | CEM-3 | Continuous | | 11.5 | 11.8 | 12.3 | Not applicable |

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 1 (Compressor #1 exhaust stack) as AGL knows that the data has been unable to be collected or is incorrect.

| Date | Approximate Total Hours | Pollutant | Justification |
|--------------|-------------------------|--|---|
| 01 June 2020 | 6 | Oxides of Nitrogen, Moisture | Scheduled Maintenance |
| 01 June 2020 | 2 | Volumetric Flowrate, Temperature | |
| 01 June 2020 | 1 | Oxygen | |
| 05 June 2020 | 10 | Oxides of Nitrogen | Unscheduled Maintenance |
| 05 June 2020 | 7 | Moisture | |
| 07 June 2020 | 1 | Oxides of Nitrogen, Moisture, Volumetric Flowrate, Temperature | Data unable to be collected due to compressor stabilisation |
| 13 June 2020 | 1 | Moisture | |
| 19 June 2020 | 1 | Oxides of Nitrogen, Moisture | |
| 19 June 2020 | 2 | Oxygen | |
| 30 June 2020 | 1 | Oxygen | |
| | | | Scheduled Maintenance |