AGL UPSTREAM INVESTMENTS PTY LTD

Emission Testing Report

Report No 88190r2

September 2011

CLIENT	**AGL Upstream Investments Pty Ltd**
	Rosalind Park Gas Plant
	Lot 35 Medhurst Road
	MENANGLE NSW 2568
CONTACT	Mr Aaron Clifton
PROJECT	**Emission Testing**
REPORT NUMBER	88190r2
DATE REPORTED	27 September 2011
SAMPLED BY	EML Air Pty Ltd
DATE SAMPLED	9 March 2011
AUTHORISED BY	Glenn Trenear
	Client Manager

CONTENTS

FOREWORD

Tests were performed at the request of AGL Upstream Investments Pty Ltd to determine emissions to air as detailed in the test summary below;

TEST METHODS

Parameter	NSW Test Method	Reference Method	Uncertainty*
Sample Plane Criteria	TM-1	AS 4323.1	-
Flow rate, temperature and velocity	TM-2	USEPA 2	not specified
Moisture content	TM-22	USEPA 4	8%
Sulfuric acid mist (including sulfur trioxide and sulfur dioxide)	TM-3	USEPA 8	not specified
Nitrogen oxides (NO$_x$)	TM-11	USEPA 7E	not specified

* Uncertainty values cited in this table are calculated at the 95% confidence level (coverage factor = 2)

AS – Australian Standard
USEPA – United States Environmental Protection Agency
TM - Test Method
OM - Other approved method

RESULTS

Stack Identification	Test Parameters	Concentration mg/m^3	Licence Limit mg/m^3
Point 1 – Engine 1	Sulfuric acid mist and sulfur trioxide (expressed as sulfur trioxide)	0.033	5
	Sulfur dioxide	<0.25	7
	Nitrogen oxides (as NO$_2$) corrected to 7% O2	420	461

Stack Identification	Test Parameters	Concentration mg/m^3	Licence Limit mg/m^3
Point 2 – Engine 2	Sulfuric acid mist and sulfur trioxide (expressed as sulfur trioxide)	0.12	5
	Sulfur dioxide	<0.17	7
	Nitrogen oxides (as NO$_2$) corrected to 7% O2	200	461

Stack Identification	Test Parameters	Concentration mg/m^3	Licence Limit mg/m^3
Point 4 – Reboiler Flue 4	Sulfuric acid mist and sulfur trioxide (expressed as sulfur trioxide)	0.061	3.5
	Sulfur dioxide	<0.27	35
	Nitrogen oxides (as NO$_2$) corrected to 7% O2	110	110

Stack Identification	Test Parameters	Concentration mg/m^3	Licence Limit mg/m^3
Point 5 – Reflux Column Vent 5	Sulfuric acid mist and sulfur trioxide (expressed as sulfur trioxide)	1.5	35
	Sulfur dioxide	<0.6	1042
	Nitrogen oxides (as NO$_2$) corrected to 7% O2	<2.8	13

Note: Point 3 – Engine 3 did not run on this day.

Stack Emission Specialists
MELBOURNE • SYDNEY • PERTH

QUALITY ASSURANCE

EML Air is accredited to Australian Standard 17025 – General Requirements for the Competence of Testing and Calibration Laboratories. Australian Standard 17025 requires that a laboratory have a quality system similar to ISO 9002. More importantly it also requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Assurance Manager.

A formal Quality Control program is in place at EML Air to monitor analyses performed in the laboratory and sampling conducted in the field. The program is designed to check where appropriate; the sampling reproducibility, analytical method, accuracy, precision and the performance of the analyst. The Laboratory Manager is responsible for the administration and maintenance of this program.

DEFINITIONS

The following symbols and abbreviations may be used in this test report:

<   Less than

NA   Not applicable