



REPORT NUMBER R009780r

**Emission Testing Report
Santos Limited, Wilga Park**

Document Information

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Report Authorisation



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NATA Accredited Laboratory
No. 14601

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Table of Contents

1	Executive Summary	4
1.1	Background.....	4
1.2	Project Objectives	4
1.3	Results Summary.....	5
2	Results	6
2.1	GO1A.....	6
2.2	GO3B.....	7
2.3	GO5B.....	8
2.4	GO6B.....	9
2.5	GO2A.....	10
2.6	GO3A.....	11
2.7	GO4A.....	12
2.8	GO6A.....	13
3	Plant Operating Conditions	14
4	Test Methods	14
5	Quality Assurance/Quality Control Information	14
6	Definitions	15

1 EXECUTIVE SUMMARY

1.1 Background

Ektimo was engaged by Santos Limited to perform emission testing from gas-fired engines situated at their Wilga Park plant.

1.2 Project Objectives

The objectives of the project were to conduct a monitoring programme to quantify emissions from multiple discharge points to determine compliance with Santos Limited's Department Development Approval DA07-0023.

Monitoring was performed as follows:

Location	Test Date	Test Parameters*
GO1A	15 September 2020	Nitrogen oxides (as NO ₂), oxygen
GO3B		
GO5B		
GO6B		
GO2A	16 September 2020	
GO3A		
GO4A		
GO6A		

* Flow rate, velocity, temperature and moisture were also determined.

Emission testing was conducted on all engines at Wilga Park that were operational on the designated occasion for monitoring.

Engine GO4B was offline due to major overhaul / service works in progress and was not tested.

Engine GO5A was offline due to major overhaul / service works in progress and was not tested.

All results are reported on a dry basis at STP.

Plant operating conditions have been noted in the report.

1.3 Results Summary

The following results summary table shows that all analytes highlighted in green are below the Department of Planning limits within DA 07_0023.

Location Description	Pollutant	Units	Department Planning limit	Detected values	Corrected to 3% O ₂
GO1A	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	220	430
GO2A	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	230	440
GO3A	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	270	420
GO3B	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	230	440
GO4A	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	250	380
GO5B	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	220	430
GO6A	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	290	440
GO6B	Oxides of Nitrogen (as NO ₂)	mg/m ³	450	220	440

Please note that the measurement uncertainty associated with the test results was not considered when determining whether the results were compliant or non-compliant.

Refer to the Test Methods table for the measurement uncertainties.

2 RESULTS

2.1 GO1A

Date	15/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO1A
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 2900kW		

Sampling Plane Details

Sampling plane dimensions	600 mm
Sampling plane area	0.283 m ²
Sampling port size, number	4" Flange (x2)
Access & height of ports	Elevated work platform 10 m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 8 D
Upstream disturbance	Change in diameter 3 D
No. traverses & points sampled	2 12
Sample plane compliance to AS4323.1	Compliant but non-ideal



Comments

The sampling plane is deemed to be non-ideal due to the following reasons:

The sampling plane is too near to the upstream disturbance but is greater than or equal to 2D

Stack Parameters

Moisture content, %v/v	8.4	
Gas molecular weight, g/g mole	28.6 (wet)	29.5 (dry)
Gas density at STP, kg/m ³	1.27 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.92

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1025 & 1135
Temperature, °C	374
Temperature, K	647
Velocity at sampling plane, m/s	35
Volumetric flow rate, actual, m ³ /s	10
Volumetric flow rate (wet STP), m ³ /s	4.1
Volumetric flow rate (dry STP), m ³ /s	3.8
Mass flow rate (wet basis), kg/hour	19000
Velocity difference, %	6

Gas Analyser Results

Sampling time	Average		
	1027 - 1126		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	220	430	51
Oxygen	Concentration % v/v		
	11.6		

2.2 GO3B

Date	15/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO3B
Licence No.	DA 07_0023	Location	Wilga Park
Ektime Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 3000kW		

Sampling Plane Details

Sampling plane dimensions	600 mm
Sampling plane area	0.283 m ²
Sampling port size, number	4" Flange (x2)
Access & height of ports	Elevated work platform 10m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 8 D
Upstream disturbance	Change in diameter 3 D
No. traverses & points sampled	2 12
Sample plane compliance to AS4323.1	Compliant but non-ideal



Comments

The sampling plane is deemed to be non-ideal due to the following reasons:

The sampling plane is too near to the upstream disturbance but is greater than or equal to 2D

Stack Parameters

Moisture content, %v/v	8.3	
Gas molecular weight, g/g mole	28.6 (wet)	29.6 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.90

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1205 & 1315
Temperature, °C	373
Temperature, K	646
Velocity at sampling plane, m/s	36
Volumetric flow rate, actual, m ³ /s	10
Volumetric flow rate (wet STP), m ³ /s	4.2
Volumetric flow rate (dry STP), m ³ /s	3.9
Mass flow rate (wet basis), kg/hour	19000
Velocity difference, %	-2

Gas Analyser Results

Sampling time	Average		
	1211 - 1310		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	230	440	54
Oxygen	Concentration % v/v		
	11.5		

2.3 G05B

Date	15/09/2020	Client	Santos Limited
Report	R009780	Stack ID	G05B
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 3000kW		

Sampling Plane Details

Sampling plane dimensions	600 mm
Sampling plane area	0.283 m ²
Sampling port size, number	4" Flange (x2)
Access & height of ports	Elevated work platform 10m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 8 D
Upstream disturbance	Change in diameter 3 D
No. traverses & points sampled	2 12
Sample plane compliance to AS4323.1	Compliant but non-ideal



Comments

The sampling plane is deemed to be non-ideal due to the following reasons:

The sampling plane is too near to the upstream disturbance but is greater than or equal to 2D

Stack Parameters

Moisture content, %v/v	8.2	
Gas molecular weight, g/g mole	28.6 (wet)	29.6 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.95

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1345 & 1450
Temperature, °C	364
Temperature, K	637
Velocity at sampling plane, m/s	36
Volumetric flow rate, actual, m ³ /s	10
Volumetric flow rate (wet STP), m ³ /s	4.3
Volumetric flow rate (dry STP), m ³ /s	3.9
Mass flow rate (wet basis), kg/hour	20000
Velocity difference, %	4

Gas Analyser Results

Sampling time	Average		
	1348 - 1447		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	220	430	53
Oxygen	Concentration % v/v		
	11.7		

2.4 GO6B

Date	15/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO6B
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 3000kW		

Sampling Plane Details

Sampling plane dimensions	600 mm
Sampling plane area	0.283 m ²
Sampling port size, number	4" Flange (x2)
Access & height of ports	Elevated work platform 10m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 8 D
Upstream disturbance	Change in diameter 3 D
No. traverses & points sampled	2 12
Sample plane compliance to AS4323.1	Compliant but non-ideal



Comments

The sampling plane is deemed to be non-ideal due to the following reasons:

The sampling plane is too near to the upstream disturbance but is greater than or equal to 2D

Stack Parameters

Moisture content, %v/v	8.6	
Gas molecular weight, g/g mole	28.6 (wet)	29.6 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.97

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1540 & 1650
Temperature, °C	358
Temperature, K	631
Velocity at sampling plane, m/s	36
Volumetric flow rate, actual, m ³ /s	10
Volumetric flow rate (wet STP), m ³ /s	4.3
Volumetric flow rate (dry STP), m ³ /s	4
Mass flow rate (wet basis), kg/hour	20000
Velocity difference, %	-2

Gas Analyser Results

Sampling time	Average		
	1543 - 1642		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	220	440	53
Oxygen	Concentration % v/v		
	11.8		

2.5 GO2A

Date	16/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO2A
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 2850kW		

Sampling Plane Details

Sampling plane dimensions	600 mm
Sampling plane area	0.283 m ²
Sampling port size, number	4" Flange (x2)
Access & height of ports	Elevated work platform 10m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 8 D
Upstream disturbance	Change in diameter 3 D
No. traverses & points sampled	2 12
Sample plane compliance to AS4323.1	Compliant but non-ideal



Comments

The sampling plane is deemed to be non-ideal due to the following reasons:

The sampling plane is too near to the upstream disturbance but is greater than or equal to 2D

Stack Parameters

Moisture content, %v/v	8.5	
Gas molecular weight, g/g mole	28.6 (wet)	29.5 (dry)
Gas density at STP, kg/m ³	1.27 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.87

Gas Flow Parameters

Flow measurement time(s) (hhmm)	0830 & 0940
Temperature, °C	383
Temperature, K	656
Velocity at sampling plane, m/s	34
Volumetric flow rate, actual, m ³ /s	9.7
Volumetric flow rate (wet STP), m ³ /s	4
Volumetric flow rate (dry STP), m ³ /s	3.6
Mass flow rate (wet basis), kg/hour	18000
Velocity difference, %	-2

Gas Analyser Results

Sampling time	Average		
	0834 - 0933		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	230	440	51
Oxygen	Concentration % v/v		
	11.4		

2.6 GO3A

Date	16/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO3A
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 900kW		

200805

Sampling Plane Details

Sampling plane dimensions	320 mm
Sampling plane area	0.0804 m ²
Sampling port size, number	Sampled at exit
Access & height of ports	Platform ladder 4 m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 0D
Upstream disturbance	Exit 0D
No. traverses & points sampled	2 8
Sample plane compliance to AS4323.1	Non-compliant



Comments

The sampling plane is deemed to be non-compliant due to the following reasons:

The downstream disturbance is <1D from the sampling plane

The upstream disturbance is <2D from the sampling plane

The stack or duct does not have the required number of access holes (ports)

Stack Parameters

Moisture content, %v/v	9	
Gas molecular weight, g/g mole	28.6 (wet)	29.7 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.54

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1155 & 1305
Temperature, °C	483
Temperature, K	756
Velocity at sampling plane, m/s	43
Volumetric flow rate, actual, m ³ /s	3.4
Volumetric flow rate (wet STP), m ³ /s	1.2
Volumetric flow rate (dry STP), m ³ /s	1.1
Mass flow rate (wet basis), kg/hour	5600
Velocity difference, %	<1

Gas Analyser Results

Sampling time	Average		
	1157 - 1256		
	Corrected to 3%		
Combustion Gases	Concentration mg/m ³	O ₂ mg/m ³	Mass Rate g/min
Nitrogen oxides (as NO ₂)	270	420	18
Oxygen	Concentration % v/v	9.3	

2.7 GO4A

Date	16/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO4A
Licence No.	DA 07_0023	Location	Wilga Park
Ektimo Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 900kW		

200805

Sampling Plane Details

Sampling plane dimensions	320 mm
Sampling plane area	0.0804 m ²
Sampling port size, number	Sampled at exit
Access & height of ports	Platform ladder 4 m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 0D
Upstream disturbance	Exit 0D
No. traverses & points sampled	2 8
Sample plane compliance to AS4323.1	Non-compliant



Comments

The sampling plane is deemed to be non-compliant due to the following reasons:

- The downstream disturbance is <1D from the sampling plane
- The upstream disturbance is <2D from the sampling plane
- The stack or duct does not have the required number of access holes (ports)

Stack Parameters

Moisture content, %v/v	8.5	
Gas molecular weight, g/g mole	28.7 (wet)	29.7 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.33 (dry)
% Oxygen correction & Factor	3%	1.54

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1310 & 1420
Temperature, °C	469
Temperature, K	742
Velocity at sampling plane, m/s	40
Volumetric flow rate, actual, m ³ /s	3.2
Volumetric flow rate (wet STP), m ³ /s	1.2
Volumetric flow rate (dry STP), m ³ /s	1.1
Mass flow rate (wet basis), kg/hour	5300
Velocity difference, %	4

Gas Analyser Results

Sampling time	Average		
	1313 - 1412		
	Corrected to 3%		
	Concentration	O ₂	Mass Rate
	mg/m ³	mg/m ³	g/min
Combustion Gases			
Nitrogen oxides (as NO ₂)	250	380	16
	Concentration		
	% v/v		
Oxygen	9.3		

2.8 GO6A

Date	16/09/2020	Client	Santos Limited
Report	R009780	Stack ID	GO6A
Licence No.	DA 07_0023	Location	Wilga Park
Ektime Staff	Aaron Davis / Scott Woods	State	NSW
Process Conditions	Engine operating at 1000kW		

Sampling Plane Details

Sampling plane dimensions	320 mm
Sampling plane area	0.0804 m ²
Sampling port size, number	Sampled at exit
Access & height of ports	Platform ladder 4 m
Duct orientation & shape	Vertical Circular
Downstream disturbance	Exit 0D
Upstream disturbance	Exit 0D
No. traverses & points sampled	2 8
Sample plane compliance to AS4323.1	Non-compliant



Comments

The sampling plane is deemed to be non-compliant due to the following reasons:

The downstream disturbance is <1D from the sampling plane

The upstream disturbance is <2D from the sampling plane

The stack or duct does not have the required number of access holes (ports)

Stack Parameters

Moisture content, %v/v	8.8	
Gas molecular weight, g/g mole	28.7 (wet)	29.7 (dry)
Gas density at STP, kg/m ³	1.28 (wet)	1.32 (dry)
% Oxygen correction & Factor	3%	1.54

Gas Flow Parameters

Flow measurement time(s) (hhmm)	1000 & 1110
Temperature, °C	523
Temperature, K	796
Velocity at sampling plane, m/s	44
Volumetric flow rate, actual, m ³ /s	3.5
Volumetric flow rate (wet STP), m ³ /s	1.2
Volumetric flow rate (dry STP), m ³ /s	1.1
Mass flow rate (wet basis), kg/hour	5400
Velocity difference, %	-1

Gas Analyser Results

Sampling time	Average		
	1006 - 1105		
	Concentration	O ₂	Mass Rate
	mg/m ³	mg/m ³	g/min
Combustion Gases	Corrected to 3%		
Nitrogen oxides (as NO ₂)	290	440	19
	Concentration		
	% v/v		
Oxygen	9.2		

3 PLANT OPERATING CONDITIONS

Operating conditions have been supplied by Santos Limited.

Location	Test Date	Engine Operating Conditions
GO1A	15 September 2020	2900 kW
GO3B	15 September 2020	3000 kW
GO5B	15 September 2020	3000 kW
GO6B	15 September 2020	3000 kW
GO2A	16 September 2020	2850 kW
GO3A	16 September 2020	900 kW
GO4A	16 September 2020	900 kW
GO6A	16 September 2020	1000 kW

4 TEST METHODS

All sampling and analysis performed by Ektimo unless otherwise specified. Specific details of the methods are available upon request.

Parameter	Sampling Method	Analysis Method	Uncertainty*	NATA Accredited	
				Sampling	Analysis
Sample plane criteria	NSW TM-1	NA	NA	✓	NA
Flow rate, temperature and velocity	NA	NSW TM-2	8%, 2%, 7%	NA	✓
Moisture content	NSW TM-22	NSW TM-22	19%	✓	✓
Molecular weight	NA	NSW TM-23	not specified	NA	✓
Nitrogen oxides	NSW TM-11	NSW TM-11	12%	✓	✓
Oxygen	NSW TM-25	NSW TM-25	13%	✓	✓

200708

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

5 QUALITY ASSURANCE/QUALITY CONTROL INFORMATION

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA (National Association of Testing Authorities) to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing 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 Director.

NATA is a member of APLAC (Asia Pacific Laboratory Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through the mutual recognition arrangements with both of these organisations, NATA accreditation is recognised worldwide.

6 DEFINITIONS

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

% v/v	Volume to volume ratio, dry or wet basis
~	Approximately
<	Less than
>	Greater than
≥	Greater than or equal to
APHA	American public health association, Standard Methods for the Examination of Water and Waste Water
AS	Australian Standard
BSP	British standard pipe
CARB	Californian Air Resources Board
CEM	Continuous Emission Monitoring
CEMS	Continuous Emission Monitoring System
CTM	Conditional test method
D	Duct diameter or equivalent duct diameter for rectangular ducts
D ₅₀	'Cut size' of a cyclone defined as the particle diameter at which the cyclone achieves a 50% collection efficiency ie. half of the particles are retained by the cyclone and half are not and pass through it to the next stage. The D ₅₀ method simplifies the capture efficiency distribution by assuming that a given cyclone stage captures all of the particles with a diameter equal to or greater than the D ₅₀ of that cyclone and less than the D ₅₀ of the preceding cyclone.
DECC	Department of Environment & Climate Change (NSW)
Disturbance	A flow obstruction or instability in the direction of the flow which may impede accurate flow determination. This includes centrifugal fans, axial fans, partially closed or closed dampers, louvres, bends, connections, junctions, direction changes or changes in pipe diameter.
DWER	Department of Water and Environmental Regulation (WA)
DEHP	Department of Environment and Heritage Protection (QLD)
EPA	Environment Protection Authority
FTIR	Fourier Transform Infra-red
ISC	Intersociety committee, Methods of Air Sampling and Analysis
ISO	International Organisation for Standardisation
Lower Bound	Defines values reported below detection as equal to zero.
Medium Bound	Defines values reported below detection are equal to half the detection limit.
NA	Not applicable
NATA	National Association of Testing Authorities
NIOSH	National Institute of Occupational Safety and Health
NT	Not tested or results not required
OM	Other approved method
OU	The number of odour units per unit of volume. The numerical value of the odour concentration is equal to the number of dilutions to arrive at the odour threshold (50% panel response).
PM ₁₀	Atmospheric suspended particulate matter having an equivalent aerodynamic diameter of less than approximately 10 microns (µm).
PM _{2.5}	Atmospheric suspended particulate matter having an equivalent aerodynamic diameter of less than approximately 2.5 microns (µm).
PSA	Particle size analysis
RATA	Relative Accuracy Test Audit
Semi-quantified VOCs	Unknown VOCs (those not matching a standard compound), are identified by matching the mass spectrum of the chromatographic peak to the NIST Standard Reference Database (version 14.0), with a match quality exceeding 70%. An estimated concentration will be determined by matching the integrated area of the peak with the nearest suitable compound in the analytical calibration standard mixture.
STP	Standard temperature and pressure. Gas volumes and concentrations are expressed on a dry basis at 0°C, at discharge oxygen concentration and an absolute pressure of 101.325 kPa, unless otherwise specified.
TM	Test Method
TOC	The sum of all compounds of carbon which contain at least one carbon to carbon bond, plus methane and its derivatives.
USEPA	United States Environmental Protection Agency
VDI	Verein Deutscher Ingenieure (Association of German Engineers)
Velocity Difference	The percentage difference between the average of initial flows and afterflows.
Vic EPA	Victorian Environment Protection Authority
VOC	Any chemical compound based on carbon with a vapour pressure of at least 0.010 kPa at 25°C or having a corresponding volatility under the particular conditions of use. These compounds may contain oxygen, nitrogen and other elements, but specifically excluded are carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonate salts.
XRD	X-ray Diffractometry
Upper Bound	Defines values reported below detection are equal to the detection limit.
95% confidence interval	Range of values that contains the true result with 95% certainty. This means there is a 5% risk that the true result is outside this range.

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