

# Monthly Data Summary

## LIDDELL MONTHLY DATA SUMMARY MAY 2016

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	MAY 2016

### A1 Licence Holder

Licence Number 2122  
 Licence Holder AGL MACQUARIE  
 Trading Name (if applicable)  
 ABN 18 167 859 494

### A2 Premises to which Licence Applies (if applicable)

Common Name (if any) LIDDELL POWER STATION  
 Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

### A3 Activities to which Licence Applies

Electricity Generating Works  
 Coal Works

### A4 Other Activities (if applicable)

Helicopter-related facilities  
 Chemical storage  
 Operation of Emergency 1.5 MW diesel generator  
 Operation of Gas turbine  
 Sewage treatment  
 Waste storage

### A5 Fee-Based Activity Classifications

**Note** that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Coal works	> 5,000,000.00	T handled
Generation of electrical power from coal	> 4,000.00	Gwh generated

# Monthly Data Summary

## Discharge & Monitoring Point 7

301204 East 6416350 North

Discharge to Air

In the flue gases of unit 1 boiler labelled as "Unit 1 Boiler 1-2 Chimney Stack" on plan no. LD 800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MAY 2016	25/08/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	83.3%	459.8	630.7	793.2	1500 mg/m <sup>3</sup>
MAY 2016	25/08/2015		parts per million				224.0	307.3	386.5	700 ppm
MAY 2016	25/08/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	83.3%	868.7	1010.8	1134.8	
MAY 2016	25/08/2015		parts per million				303.9	353.7	397.1	600 ppm
MAY 2016	25/08/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.2	6.2	12.4	20%
Comments:										

## Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m <sup>3</sup>
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	0.0	200
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0007	
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.015	5
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	10.0	100
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00049	1.0
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	24.0	100
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	12.000	100
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.0087	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 1 tested 8 Sep 15.							

# Monthly Data Summary

## Discharge & Monitoring Point 8

301204 East 6416350 North

In the flue gases of unit 2 boiler labelled as "Unit 2 Boiler 1-2 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MAY 2016	25/08/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	292	479	714	1500 mg/m <sup>3</sup>
MAY 2016	25/08/2015		parts per million				142	233	348	700 ppm
MAY 2016	25/08/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	774	979	1268	
MAY 2016	25/08/2015		parts per million				271	342	444	600 ppm
MAY 2016	25/08/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.4	5.0	19.5	20%
Comments:										

## Annual monitoring of discharges to air

Air emission monitoring, Boiler 2 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m <sup>3</sup>
Sep-15	14/10/2015	Cadmium	milligrams per cubic metre	1	1	0.0000	1.0
Sep-15	14/10/2015	Chlorine	milligrams per cubic metre	1	1	<0.0042	200
Sep-15	14/10/2015	Copper	milligrams per cubic metre	1	1	0.0013	
Sep-15	14/10/2015	Hazardous substances (Metals)	milligrams per cubic metre	1	1	0.014	5
Sep-15	14/10/2015	Hydrogen chloride	milligrams per cubic metre	1	1	16.0	100
Sep-15	14/10/2015	Mercury	milligrams per cubic metre	1	1	0.00033	1.0
Sep-15	14/10/2015	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Sep-15	14/10/2015	Solid particles	milligrams per cubic metre	1	1	21.0	100
Sep-15	14/10/2015	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	7.200	100
Sep-15	14/10/2015	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Sep-15	14/10/2015	Total fluoride	milligrams per cubic metre	1	1	9.6	50
Sep-15	14/10/2015	Volatile organic compounds	milligrams per cubic metre	1	1	<0.013	
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 2 tested 9 Sep 15.							

# Monthly Data Summary

## Discharge & Monitoring Point 9

301204 East 6416350 North

In the flue gases of unit 3 boiler labelled as "Unit 3 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MAY 2016	25/08/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	340.0	538.5	641.7	1500 mg/m <sup>3</sup>
MAY 2016	25/08/2015		parts per million				165.7			262.4
MAY 2016	25/08/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	873.6	1023.6	1157.9	
MAY 2016	25/08/2015		parts per million				305.7			358.2
MAY 2016	25/08/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.2	4.5	12.4	20%
Comments:										

## Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m <sup>3</sup>
		Cadmium	milligrams per cubic metre	1	1		1.0
		Chlorine	milligrams per cubic metre	1	1		200
		Copper	milligrams per cubic metre	1	1		
		Hazardous substances (Metals)	milligrams per cubic metre	1	1		5
		Hydrogen chloride	milligrams per cubic metre	1	1		100
		Mercury	milligrams per cubic metre	1	1		1.0
		Nitrogen oxides	milligrams per cubic metre	1	1		1500
		Solid particles	milligrams per cubic metre	1	1		100
		Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1		100
		Sulphur dioxide	milligrams per cubic metre	1	1		
		Total fluoride	milligrams per cubic metre	1	1		50
		Volatile organic compounds	milligrams per cubic metre	1	1		
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. Boiler 3 was tested 7 June 2016. Results are not yet available for this test.							

# Monthly Data Summary

## Discharge & Monitoring Point 10

301204 East 6416350 North

In the flue gases of unit 4 boiler labelled as "Unit 4 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurement frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
MAY 2016	25/08/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	474.2	627.9	826.9	1500 mg/m3
MAY 2016	25/08/2015		parts per million				231.0	305.9	402.9	700 ppm
MAY 2016	25/08/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	692.2	849.4	1045.7	
MAY 2016	25/08/2015		parts per million				242.2	297.2	365.9	600 ppm
MAY 2016	25/08/2015	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	3.2	6.6	12.4	20%
Comments:										

## Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m <sup>3</sup>			
Jan-16	23/02/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0			
Jan-16	23/02/2016	Chlorine	milligrams per cubic metre	1	1	<0.02	200			
Jan-16	23/02/2016	Copper	milligrams per cubic metre	1	1	0.0011				
Jan-16	23/02/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	<0.041	5			
Jan-16	23/02/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100			
Jan-16	23/02/2016	Mercury	milligrams per cubic metre	1	1	0.00022	1.0			
Jan-16	23/02/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500			
Jan-16	23/02/2016	Solid particles	milligrams per cubic metre	1	1	58.0	100			
Jan-16	23/02/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.100	100			
Jan-16	23/02/2016	Sulphur dioxide	milligrams per cubic metre	1	1	660				
Jan-16	23/02/2016	Total fluoride	milligrams per cubic metre	1	1	8.6	50			
Jan-16	23/02/2016	Volatile organic compounds	milligrams per cubic metre	1	1	0.034				
Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. This table contains the latest results from Boiler 4 tested 19 Jan 16.										

# Monthly Data Summary

Details of Non-Compliance with Licence
N/A
Summary of particulars of the non-compliance <b>(NO MORE THAN 50 WORDS)</b>
-
If required, further details on particulars of non-compliance
-
Date(s) when the non-compliance occurred, if applicable
-
If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance
-
Cause of non-compliance
-
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
-
Action taken or that will be taken to prevent a recurrence of the non-compliance
-

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