

# Monthly Data Summary

## LIDDELL MONTHLY DATA SUMMARY MAY 2017

LICENCE NO	2122
LICENCE HOLDER	AGL MACQUARIE
REPORTING PERIOD	MAY 2017

### 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 2017	15/06/2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	285.9	609.1	775.4	1500 mg/m <sup>3</sup>
MAY 2017	15/06/2017		parts per million				139.3	296.7	377.8	700 ppm
MAY 2017	15/06/2017	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	783.8	990.6	1475.2	
MAY 2017	15/06/2017		parts per million				274.2	346.6	516.2	600 ppm
MAY 2017	15/06/2017	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.4	5.9	12.2	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>
Oct-16	15/11/2016	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Oct-16	15/11/2016	Chlorine	milligrams per cubic metre	1	1	<0.006	200
Oct-16	15/11/2016	Copper	milligrams per cubic metre	1	1	0.0180	
Oct-16	15/11/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.021	5
Oct-16	15/11/2016	Hydrogen chloride	milligrams per cubic metre	1	1	17.0	100
Oct-16	15/11/2016	Mercury	milligrams per cubic metre	1	1	0.00017	1.0
Oct-16	15/11/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Oct-16	15/11/2016	Solid particles	milligrams per cubic metre	1	1	36.0	100
Oct-16	15/11/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.770	100
Oct-16	15/11/2016	Sulphur dioxide	milligrams per cubic metre	1	1	770	
Oct-16	15/11/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Oct-16	15/11/2016	Volatile organic compounds	milligrams per cubic metre	1	1	<0.02	

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 11 Oct 16.

# 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 2017	15/06/2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	395	575	1094	1500 mg/m <sup>3</sup>
MAY 2017	15/06/2017		parts per million				192	280	533	700 ppm
MAY 2017	15/06/2017	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	760	951	1525	
MAY 2017	15/06/2017		parts per million				266	333	534	600 ppm
MAY 2017	15/06/2017	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	6.6	8.8	13.2	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>
Oct-16	15/11/2016	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Oct-16	15/11/2016	Chlorine	milligrams per cubic metre	1	1	<0.008	200
Oct-16	15/11/2016	Copper	milligrams per cubic metre	1	1	0.0880	
Oct-16	15/11/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.019	5
Oct-16	15/11/2016	Hydrogen chloride	milligrams per cubic metre	1	1	18.0	100
Oct-16	15/11/2016	Mercury	milligrams per cubic metre	1	1	0.00066	1.0
Oct-16	15/11/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Oct-16	15/11/2016	Solid particles	milligrams per cubic metre	1	1	27.0	100
Oct-16	15/11/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.300	100
Oct-16	15/11/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
Oct-16	15/11/2016	Total fluoride	milligrams per cubic metre	1	1	13.0	50
Oct-16	15/11/2016	Volatile organic compounds	milligrams per cubic metre	1	1	0.110	
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 13 Oct 16.							

# 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 2017	15/06/2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	263.2	503.1	780.6	1500 mg/m <sup>3</sup>
MAY 2017	15/06/2017		parts per million				128.2	245.1	380.3	700 ppm
MAY 2017	15/06/2017	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	708.1	933.1	1229.4	
MAY 2017	15/06/2017		parts per million				247.8	326.5	430.2	600 ppm
MAY 2017	15/06/2017	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	2.9	7.3	18.8	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>
Apr-17	19/05/2017	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Apr-17	19/05/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200
Apr-17	19/05/2017	Copper	milligrams per cubic metre	1	1	0.0790	
Apr-17	19/05/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.02	5
Apr-17	19/05/2017	Hydrogen chloride	milligrams per cubic metre	1	1	19.0	100
Apr-17	19/05/2017	Mercury	milligrams per cubic metre	1	1	0.00079	1.0
Apr-17	19/05/2017	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Apr-17	19/05/2017	Solid particles	milligrams per cubic metre	1	1	15.0	100
Apr-17	19/05/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.300	100
Apr-17	19/05/2017	Sulphur dioxide	milligrams per cubic metre	1	1	980	
Apr-17	19/05/2017	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Apr-17	19/05/2017	Volatile organic compounds	milligrams per cubic metre	1	1	<0.2	

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 3 tested 4 April 2017.

# 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 2017	15/06/2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	>99%	406.9	567.3	786.5	1500 mg/m <sup>3</sup>
MAY 2017	15/06/2017		parts per million				198.2	276.4	383.2	700 ppm
MAY 2017	15/06/2017	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	>99%	769.6	938.3	1211.8	
MAY 2017	15/06/2017		parts per million				269.3	328.3	424.0	600 ppm
MAY 2017	15/06/2017	Opacity - Undifferentiated particles	Percent	Continuous	One hour	>99%	1.9	4.5	12.5	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>			
Apr-17	19/05/2017	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0			
Apr-17	19/05/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200			
Apr-17	19/05/2017	Copper	milligrams per cubic metre	1	1	0.0051				
Apr-17	19/05/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.026	5			
Apr-17	19/05/2017	Hydrogen chloride	milligrams per cubic metre	1	1	18.0	100			
Apr-17	19/05/2017	Mercury	milligrams per cubic metre	1	1	0.00330	1.0			
Apr-17	19/05/2017	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500			
Apr-17	19/05/2017	Solid particles	milligrams per cubic metre	1	1	44.0	100			
Apr-17	19/05/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.300	100			
Apr-17	19/05/2017	Sulphur dioxide	milligrams per cubic metre	1	1	1000				
Apr-17	19/05/2017	Total fluoride	milligrams per cubic metre	1	1	11.0	50			
Apr-17	19/05/2017	Volatile organic compounds	milligrams per cubic metre	1	1	<0.2				
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 6 April 2017.										

# Monthly Data Summary

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

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