BAYSWATER MONTHLY DATA SUMMARY JANUARY 2017

LICENCE NO	779
LICENCE HOLDER	AGL Macquarie
REPORTING PERIOD	JANUARY 2017

A1 Licence Holder

Licence Number 779

Licence Holder AGL Macquarie

Trading Name (if applicable)

ABN 18 402 904 344

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) BAYSWATER POWER STATION

Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

A3 Activities to which Licence Applies

Electricity Generation

A4 Other Activities (if applicable) Crushing, Grinding or Separating Works Aircraft (helicopter) facilities

Crushing, Grinding or Separating Works

Sewage Treatment Systems

Chemical Storage Facilities

Aircraft (helicopter) facilities

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used t	o calculate the administrative fee.	
Fee-based activity	Activity scale	Unit of measure
Generation of electrical power from coal	> 4,000.00	Gwh generated
Chemical Storage	> 100	Tonnes Generated or Stored
Coal Works	> 5000000	Tonnes handled

Discharge & Monitoring Point 1

Discharge to waters

Effluent quality and volume monitoring, Discharge from main station oil separator hoBWing basin and Treated Process Water Pond to Tinkers Creek, shown as "EPA ID No. 1" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Oil and Grease	milligrams per litre	Fortnightly	5	<5	2.5	< 5	10 mg/L
JANUARY 2017	14/02/2017	Total suspended solids	milligrams per litre	Fortnightly	5	5.0	8.6	14.0	20 mg/L
JANUARY 2017	14/02/2017	Volume discharge	kilolitres per week	Weekly during discharge	4	0	7,333	8,568	36,400 kL
Comments:									

Discharge & Monitoring Point 7

Discharge to waters

Effluent quality and volume monitoring, Discharge from cooling towers to Tinkers Creek, shown as "EPA ID No. 7" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Conductivity	uS/cm	Weekly	5	2970.0	3140.0	3680.0	4500 uS/cm
JANUARY 2017	14/02/2017	рН	pH Units	Weekly	5	8.3	8.3	8.4	6.5 - 8.5
JANUARY 2017	14/02/2017	Volume discharge	Megalitres per month	Weekly during discharge	24		310.3		840 ML
Comments:									

Discharge & Monitoring Point 8

Discharge to waters

Discharge & monitoring point under the Hunter River Salinity Trading Scheme, Discharge pipe from Lake Liddel dam wall, shown as "EPA ID No. 8" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Conductivity	uS/cm	Continuous during disharge	1	2270.0	2270.0	2270.0	•
JANUARY 2017	14/02/2017	рН	pH Units	Daily during discharge	1	7.7	7.7	7.7	6.5 - 8.5
JANUARY 2017	14/02/2017	Total suspended solids	milligrams per litre	Monthly	1	√5	2.5	< 5	30 mg/L
JANUARY 2017	14/02/2017	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	700 ML
Comments:	HRSTS discharge did not occur during January 2017. Results reported were obtained from routine monthly sampling								

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Discharge & Monitoring Point 17

Discharge to waters

Ravensworth void. Inlet point located on the Void 4 pontoon pump system

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Conductivity	uS/cm	Continuous during disharge	1	6990.0	6990.0	6990.0	-
JANUARY 2017	14/02/2017	рН	pH Units	Daily during discharge	1	8.6	8.6	8.6	6.5 - 9.5
JANUARY 2017	14/02/2017	Total suspended solids	milligrams per litre	Monthly	1	18.0	18.0	18.0	30 mg/L
JANUARY 2017	14/02/2017	Boron	milligrams per litre	Weekly duirng discharge	1	3.0	3.0	3.0	0.81
JANUARY 2017	14/02/2017	Cadmium	milligrams per litre	Weekly duirng discharge	1	0.0	0.0	0.0	0.0003
JANUARY 2017	14/02/2017	Copper	milligrams per litre	Weekly duirng discharge	1	<0.001	0.0	<0.001	0.001
JANUARY 2017	14/02/2017	Iron	milligrams per litre	Weekly duirng discharge	1	<0.05	0.0	<0.05	0.27
JANUARY 2017	14/02/2017	Molybdenum	milligrams per litre	Weekly duirng discharge	1	0.3	0.3	0.3	0.29
JANUARY 2017	14/02/2017	Nickel	milligrams per litre	Weekly duirng discharge	1	0.0	0.0	0.0	0.19
JANUARY 2017	14/02/2017	Silver	milligrams per litre	Weekly duirng discharge	1	<0.0001	0.0	<0.0001	0.0005
JANUARY 2017	14/02/2017	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	20 ML
Comments:	HRSTS discharge of	did not occur during Janua	ry 2017. Results reported	d were obtained from routi	ne monthly sampling				

Discharge & Monitoring Point 10

Discharge to air

Air emission monitoring, Boiler 1 stack emissions, shown as "EPA ID No. 10" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017		parts per million				139.3	290.5	572.1	700 ppm
JANUARY 2017	14/02/2017	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	100.0%	285.8	596.3	1174.3	1500 mg/m ³
JANUARY 2017	14/02/2017	Sulphur dioxide	parts per million	Continuous	One hour	100.0%	239.8	341.8	468.8	600 ppm
JANUARY 2017	14/02/2017	Sulpriur dioxide	milligrams per cubic metre	Continuous	One hour	100.0%	685.3	977.0	1340.0	-
JANUARY 2017	14/02/2017	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	2.1%	6.1%	12.3%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m³
May-16	22/06/2016	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
May-16	22/06/2016	Carbon monoxide	ppm	1	1	390	
May-16	22/06/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
May-16	22/06/2016	Copper	milligrams per cubic metre	1	1	0.0007	
May-16	22/06/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.011	5
May-16	22/06/2016	Hydrogen chloride	milligrams per cubic metre	1	1	5.1	100
May-16	22/06/2016	Mercury	milligrams per cubic metre	1	1	<0.00040	1.0
May-16	22/06/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
May-16	22/06/2016	Solid particles	milligrams per cubic metre	1	1	4.5	100
May-16	22/06/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	0.51	100
May-16	22/06/2016	Sulphur dioxide	milligrams per cubic metre	1	1	920	
May-16	22/06/2016	Total fluoride	milligrams per cubic metre	1	1	3.6	50
comments:	Monitoring of emiss 2016.	sion from each of the 4 bo	ilers for the substances i	n this table is required ann	ually. This table contai	ns the results from B	oiler 1 tested on 19 Ma

Discharge & Monitoring Point 11

Discharge to air

Air emission monitoring, Boiler 2 stack emissions, shown as "EPA ID No. 11" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	5.0%	8.4%	14.0%	20%
Comments:										

Annual monitoring of discharges to air
Air emission monitoring, Boiler 2 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m ³
Sep-16	15/11/2016	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Sep-16	15/11/2016	Carbon monoxide	ppm	1	1	12	
Sep-16	15/11/2016	Chlorine	milligrams per cubic metre	1	1	<0.007	200
Sep-16	15/11/2016	Copper	milligrams per cubic metre	1	1	0.0016	
Sep-16	15/11/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.031	5
Sep-16	15/11/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100
Sep-16	15/11/2016	Mercury	milligrams per cubic metre	1	1	0.00320	1.0
Sep-16	15/11/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Sep-16	15/11/2016	Solid particles	milligrams per cubic metre	1	1	31.0	100
Sep-16	15/11/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	2.70	100
Sep-16	15/11/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
Sep-16	15/11/2016	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Comments:	Monitoring of emiss September 2016	sion from each of the 4 bo	ilers for the substances i	in this table is required ann	ually. This table contain	ins the results from Bo	piler 2 tested on 27

Discharge & Monitoring Point 12

Discharge to air

Air emission monitoring, Boiler 3 stack emissions, shown as "EPA ID No. 12" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.2%	4.8%	9.1%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m³
Sep-16	15/11/2016	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Sep-16	15/11/2016	Carbon monoxide	ppm	1	1	34	
Sep-16	15/11/2016	Chlorine	milligrams per cubic metre	1	1	<0.009	200
Sep-16	15/11/2016	Copper	milligrams per cubic metre	1	1	0.0030	
Sep-16	15/11/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.024	5
Sep-16	15/11/2016	Hydrogen chloride	milligrams per cubic metre	1	1	19.0	100
Sep-16	15/11/2016	Mercury	milligrams per cubic metre	1	1	0.00130	1.0
Sep-16	15/11/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
Sep-16	15/11/2016	Solid particles	milligrams per cubic metre	1	1	20.0	100
Sep-16	15/11/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	4.10	100
Sep-16	15/11/2016	Sulphur dioxide	milligrams per cubic metre	1	1	1000	
Sep-16	15/11/2016	Total fluoride	milligrams per cubic metre	1	1	13.0	50
Comments:	Monitoring of emiss September 2016	sion from each of the 4 bo	ilers for the substances i	n this table is required annu	ually. This table contai	ins the results from B	oiler 3 tested on 29

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Discharge & Monitoring Point 13

Discharge to air

Air emission monitoring, Boiler 4 stack emissions, shown as "EPA ID No. 12" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	Sampling / measurment frequency	Averaging period	Data capture %	Lowest sample value	Mean of samples	Highest sample value	EPL Limit
JANUARY 2017	14/02/2017	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.9%	4.5%	18.0%	20%
Comments:										

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown as "EPA ID No. 13" on plan titled "Bayswater Power Station Unit 1-4, Open Space, Easments, Site Survey" dated 24/12/2004.

Month	Date of Publication	Pollutant	Unit of measure	No. of samples required by licence	Samples collected and analysed	Sample value	EPL Limit mg/m³
May-16	21/06/2016	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
May-16	21/06/2016	Carbon monoxide	ppm	1	1	9	
May-16	21/06/2016	Chlorine	milligrams per cubic metre	1	1	0.0	200
May-16	21/06/2016	Copper	milligrams per cubic metre	1	1	0.0003	
May-16	21/06/2016	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.013	5
May-16	21/06/2016	Hydrogen chloride	milligrams per cubic metre	1	1	11.0	100
May-16	21/06/2016	Mercury	milligrams per cubic metre	1	1	0.00032	1.0
May-16	21/06/2016	Nitrogen oxides	milligrams per cubic metre	1	1	1	1500
May-16	21/06/2016	Solid particles	milligrams per cubic metre	1	1	6.2	100
May-16	21/06/2016	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	2.50	100
May-16	21/06/2016	Sulphur dioxide	milligrams per cubic metre	1	1	900	
May-16	21/06/2016	Total fluoride	milligrams per cubic metre	1	1	12.0	50
Comments:	Monitoring of emise 2016.	sion from each of the 4 bo	ilers for the substances i	n this table is required ann	ually. This table contai	ns the results from Be	piler 4 tested on 17 May

Details of Non-Compliance with Licence Conditions	
cence condition number not complied with	
ummary of particulars of the non-compliance (NO MORE THAN 50 WORDS)	
required, further details on particulars of non-compliance	
	-
ate(s) when the non-compliance occurred, if applicable	
relevant, precise location where the non-compliance occurred (attach a map or diagram)	
applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance	
applicable, registration numbers of any vehicles of the chassis number of any mobile plant involved in the non-compliance	-
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ction taken or that will be taken to mitigate any adverse effects of the non-compliance	
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ction taken or that will be taken to prevent a recurrence of the non-compliance	
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