BAYSWATER MONTHLY DATA SUMMARY FEBRUARY 2017

LICENCE NO	779
LICENCE HOLDER	AGL Macquarie
REPORTING PERIOD	FEBRUARY 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 to	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
FEBRUARY 2017	1/03/2015	Oil and Grease	milligrams per litre	Fortnightly	4	<5	2.5	< 5	10 mg/L
FEBRUARY 2017	1/03/2015	Total suspended solids	milligrams per litre	Fortnightly	4	7.0	8.3	10.0	20 mg/L
FEBRUARY 2017	1/03/2015	Volume discharge	kilolitres per week	Weekly during discharge	4	0	9,254	12,757	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
FEBRUARY 2017	1/03/2015	Conductivity	uS/cm	Continuous during discharge	98.4	690.0	2871.0	4318.0	4500 uS/cm
FEBRUARY 2017	1/03/2015	рН	pH Units	Continuous during discharge	98.4	7.2	7.9	8.2	6.5 - 8.5
FEBRUARY 2017	1/03/2015	Volume discharge	Megalitres per month	Weekly during discharge	26		376.8		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		
FEBRUARY 2017	1/03/2015	Conductivity	uS/cm	Continuous during disharge	1	2370.0	2370.0	2370.0	-		
FEBRUARY 2017	1/03/2015	рН	pH Units	Daily during discharge	1	7.9	7.9	7.9	6.5 - 8.5		
FEBRUARY 2017	1/03/2015	Total suspended solids	milligrams per litre	Monthly	1	< 5	2.5	< 5	30 mg/L		
FEBRUARY 2017	1/03/2015	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	700 ML		
Comments:	HRSTS discharge o	TS discharge did not occure during the monitoring period. Results obtained from routine monthly monitoring									

Discharge & Monitoring Point 17

Discharge to waters

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

Ravensworti	i void. Inlet	point located on t	ne voia 4 ponto	on 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
FEBRUARY 2017	1/03/2015	Conductivity	uS/cm	Continuous during disharge	1	7310.0	7310.0	7310.0	-
FEBRUARY 2017	1/03/2015	рН	pH Units	Daily during discharge	1	8.7	8.7	8.7	6.5 - 9.5
FEBRUARY 2017	1/03/2015	Total suspended solids	milligrams per litre	Monthly	1	<5	2.5	<5	30 mg/L
FEBRUARY 2017	1/03/2015	Boron	milligrams per litre	Weekly duirng discharge	1	2.6	2.6	2.6	0.81
FEBRUARY 2017	1/03/2015	Cadmium	milligrams per litre	Weekly duirng discharge	1	<0.0001	0.0	<0.0001	0.0003
FEBRUARY 2017	1/03/2015	Copper	milligrams per litre	Weekly duirng discharge	1	<0.001	0.0	<0.001	0.001
FEBRUARY 2017	1/03/2015	Iron	milligrams per litre	Weekly duirng discharge	1	0.0	0.0	0.0	0.27
FEBRUARY 2017	1/03/2015	Molybdenum	milligrams per litre	Weekly duirng discharge	1	0.3	0.3	0.3	0.29
FEBRUARY 2017	1/03/2015	Nickel	milligrams per litre	Weekly duirng discharge	1	0.0	0.0	0.0	0.19
FEBRUARY 2017	1/03/2015	Silver	milligrams per litre	Weekly duirng discharge	1	<0.0001	0.0	<0.0001	0.0005
FEBRUARY 2017	1/03/2015	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	20 ML
Comments:	HRSTS discharge o	did not occure during the m	nonitoring period. Results	s obtained from routine mo	nthly monitoring				

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
FEBRUARY 2017	1/03/2015		parts per million				117.8	232.3	357.4	700 ppm
FEBRUARY 2017	1/03/2015	Nitrogen Oxides	milligrams per cubic metre	Continuous	One hour	100.0%	241.8	476.8	733.6	1500 mg/m ³
FEBRUARY 2017	1/03/2015	0.1	parts per million	0 .:		400.007	232.1	286.9	351.6	600 ppm
FEBRUARY 2017	1/03/2015	Sulphur dioxide	milligrams per cubic metre	Continuous	One hour	100.0%	663.3	820.0	1005.0	-
FEBRUARY 2017	1/03/2015	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.3%	4.8%	18.3%	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/m ³
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
omments:	Monitoring of emis 2016.	sion from each of the 4 bo	ilers for the substances in	n this table is required annu	ually. This table contain	ns the results from Bo	iler 1 tested on 19

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
FEBRUARY 2017	1/03/2015	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	2.2%	7.2%	15.5%	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/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	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	llers for the substances in	n this table is required annu	ually. This table contain	ns the results from Bo	iler 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
FEBRUARY 2017	1/03/2015	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.6%	8.1%	19.2%	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
omments:	Monitoring of emis September 2016	sion from each of the 4 boi	lers for the substances i	n this table is required annu	ually. This table contain	ns the results from Bo	iler 3 tested on 29

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
FEBRUARY 2017	1/03/2015	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	2.8%	5.5%	17.7%	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/m ³
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 emiss 2016.	sion from each of the 4 box	ilers for the substances in	n this table is required annu	ually. This table contain	ns the results from Bo	oiler 4 tested on 17 May

Details of Non-Compliance with Licence Conditions	
Licence condition number not complied with	
N/A	
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)	
If required, further details on particulars of non-compliance	
-	
Date(s) when the non-compliance occurred, if applicable	
If relevant, precise location where the non-compliance occurred (attach a map or diagram)	
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	