BAYSWATER MONTHLY DATA SUMMARY FEBRUARY 2018

	LICENCE NO	779					
	LICENCE HOLDER	AGL Macquarie					
	REPORTING PERIOD	FEBRUARY 2018					
A1	Licence Holder						
	Licence Number	779					
	Licence Holder	AGL Macquarie					
	Trading Name (if applicable)						
	ABN	18 402 904 344					
A2	Premises to which Licence A	oplies (if applicable)					
	Common Name (if any)	BAYSWATER POWER STATION					
	Premises	NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333					
A3	Activities to which Licence Ap	pplies					
	Electricity Generation						
A4	Other Activities (if applicable)	Crushing, Grinding or Separating Works Aircraft (helicopter) facilities					
	Crushing, Grinding or Separatin	g Works					
	Sewage Treatment Systems						
	Chemical Storage Facilities						
	Aircraft (helicopter) facilities						
A5	Fee-Based Activity Classification	ions					

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 2018	14/03/2018	Oil and Grease	milligrams per litre	Fortnightly	4	<5	2.5	<5	10 mg/L
FEBRUARY 2018	14/03/2018	Total suspended solids	milligrams per litre	Fortnightly	4	1.0	4.0	11.0	20 mg/L
FEBRUARY 2018	14/03/2018	Volume discharge	kilolitres per week	Weekly during discharge	4	0	13,794	16,770	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 2018	14/03/2018	Conductivity	uS/cm	Continuous	99.9%	265.0	3293.7	4046.0	4500 uS/cm
FEBRUARY 2018	14/03/2018	рН	pH Units	Continuous	99.9%	6.6	7.9	8.3	6.5 - 8.5
FEBRUARY 2018	14/03/2018	Volume discharge	Megalitres per month	Weekly during discharge	18		198.4		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 2018	14/03/2018	Conductivity	uS/cm	Continuous during disharge	1	2630.0	2630.0	2630.0	-		
FEBRUARY 2018	14/03/2018	рН	pH Units	Daily during discharge	1	7.9	7.9	7.9	6.5 - 8.5		
FEBRUARY 2018	14/03/2018	Total suspended solids	milligrams per litre	Monthly	1	<5	2.5	<5	30 mg/L		
FEBRUARY 2018	14/03/2018	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	700 ML		
Comments:	HRSTS Discharge o	STS Discharge did not occur during February 2018. Results from routine monthly sampling									

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	
FEBRUARY 2018	14/03/2018	Conductivity	uS/cm	Continuous during disharge	1	7500.0	7500.0	7500.0	-	
FEBRUARY 2018	14/03/2018	рН	pH Units	Daily during discharge	1	8.8	8.8	8.8	6.5 - 9.5	
FEBRUARY 2018	14/03/2018	Total suspended solids	milligrams per litre	Monthly	1	20	20	20	30 mg/L	
FEBRUARY 2018	14/03/2018	Boron	milligrams per litre	Weekly duirng discharge	1	3.1	3.1	3.1	0.81	
FEBRUARY 2018	14/03/2018	Cadmium	milligrams per litre	Weekly duirng discharge	1	0.0001	0.0001	0.0001	0.0003	
FEBRUARY 2018	14/03/2018	Copper	milligrams per litre	Weekly duirng discharge	1	<0.001	0.0005	<0.001	0.001	
FEBRUARY 2018	14/03/2018	Iron	milligrams per litre	Weekly duirng discharge	1	<0.05	0.025	<0.05	0.27	
FEBRUARY 2018	14/03/2018	Molybdenum	milligrams per litre	Weekly duirng discharge	1	0.39	0.39	0.39	0.29	
FEBRUARY 2018	14/03/2018	Nickel	milligrams per litre	Weekly duirng discharge	1	0.009	0.009	0.009	0.19	
FEBRUARY 2018	14/03/2018	Silver	milligrams per litre	Weekly duirng discharge	1	<0.0001	0.0001	<0.0001	0.0005	
FEBRUARY 2018	14/03/2018	Volume discharge	Megalitres per day	Daily during discharge	-	-	-	-	20 ML	
Comments:	HRSTS Discharge did not occur during February 2018. Results from routine monthly sampling									

Discharge & Monitoring Point 18

Discharge to waters

Discharge from Bayswater Ash Dam unlined flood pillway located near left abutment

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 2018	14/03/2018	Conductivity	uS/cm	Weekly duirng discharge	0				-
FEBRUARY 2018	14/03/2018	pН	pH Units	Weekly duirng discharge	0				6.5 - 9.5
FEBRUARY 2018	14/03/2018	Total suspended solids	milligrams per litre	Weekly duirng discharge	0				30 mg/L
FEBRUARY 2018	14/03/2018	Boron	milligrams per litre	Weekly duirng discharge	0				0.81
FEBRUARY 2018	14/03/2018	Cadmium	milligrams per litre	Weekly duirng discharge	0				0.0003
FEBRUARY 2018	14/03/2018	Copper	milligrams per litre	Weekly duirng discharge	0				0.001

FEBRUARY 2018	14/03/2018	Iron	milligrams per litre	Weekly duirng discharge	0				0.27		
FEBRUARY 2018	14/03/2018	Molybdenum	milligrams per litre	Weekly duirng discharge	0				0.29		
FEBRUARY 2018	14/03/2018	Nickel	milligrams per litre	Weekly duirng discharge	0				0.19		
FEBRUARY 2018	14/03/2018	Silver	milligrams per litre	Weekly duirng discharge	0				0.0005		
Comments:	Discharge did not c	arge did not occur during February 2018.									

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 2018	14/03/2018	Nitrogen Oxides	parts per million	Continuous	One hour	97.3%	114.6	254.1	484.6	-
FEBRUARY 2018	14/03/2018	······ 3 •···•···	milligrams per cubic metre				235.2	521.5	994.7	1500 mg/m ³
FEBRUARY 2018	14/03/2018	Sulphur dioxide	parts per million			100.0%	177.7	239.9	341.2	600 ppm
FEBRUARY 2018	14/03/2018		milligrams per cubic metre	Continuous	One hour		507.8	685.7	975.0	-
FEBRUARY 2018	14/03/2018	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	2.3%	3.9%	8.0%	-
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
Oct-17	15/11/2017	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Oct-17	15/11/2017	Carbon monoxide	ppm	1	1	<2	
Oct-17	15/11/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200
Oct-17	15/11/2017	Copper	milligrams per cubic metre	1	1	0.0005	
Oct-17	15/11/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.013	5
Oct-17	15/11/2017	Hydrogen chloride	milligrams per cubic metre	1	1	15.0	100
Oct-17	15/11/2017	Mercury	milligrams per cubic metre	1	1	0.00180	1.0
Oct-17	15/11/2017	Nitrogen oxides	milligrams per cubic metre	1	1	850	1500
Oct-17	15/11/2017	Solid particles	milligrams per cubic metre	1	1	45.0	100
Oct-17	15/11/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	20.00	100
Oct-17	15/11/2017	Sulphur dioxide	milligrams per cubic metre	1	1	950	
Oct-17	15/11/2017	Total fluoride	milligrams per cubic metre	1	1	9.9	50
Comments:	Monitoring of emiss October 2017.	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 10

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 2018	14/03/2018	Nitrogen Oxides	parts per million	Continuous	One hour	100.0%	131.0	204.5	302.6	-
FEBRUARY 2018	14/03/2018	Habgen Oxdes	milligrams per cubic metre	Contandodas			269.0	419.7	621.1	1500 mg/m ³
FEBRUARY 2018	14/03/2018	Sulphur dioxide	parts per million	Continuous	One hour	100.0%	199.8	245.5	342.0	600 ppm
FEBRUARY 2018	14/03/2018		milligrams per cubic metre	Contandodas			570.9	701.8	977.4	-
FEBRUARY 2018	14/03/2018	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.1%	4.8%	11.2%	-
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
Oct-17	15/11/2017	Cadmium	milligrams per cubic metre	1	1	<0.0001	1.0
Oct-17	15/11/2017	Carbon monoxide	ppm	1	1	3	
Oct-17	15/11/2017	Chlorine	milligrams per cubic metre	1	1	<0.007	200
Oct-17	15/11/2017	Copper	milligrams per cubic metre	1	1	0.0004	
Oct-17	15/11/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.0096	5
Oct-17	15/11/2017	Hydrogen chloride	milligrams per cubic metre	1	1	14.0	100
Oct-17	15/11/2017	Mercury	milligrams per cubic metre	1	1	0.00089	1.0
Oct-17	15/11/2017	Nitrogen oxides	milligrams per cubic metre	1	1	620	1500
Oct-17	15/11/2017	Solid particles	milligrams per cubic metre	1	1	41.0	100
Oct-17	15/11/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	3.00	100
Oct-17	15/11/2017	Sulphur dioxide	milligrams per cubic metre	1	1	970	
Oct-17	15/11/2017	Total fluoride	milligrams per cubic metre	1	1	9.2	50
Comments:	Monitoring of emiss October 2018	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	oiler 2 tested on 12

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 2018	14/03/2018	Nitrogen Oxides	parts per million	Continuous	One hour	100.0%	164.7	304.9	429.0	-
FEBRUARY 2018	14/03/2018		milligrams per cubic metre				338.1	625.8	880.5	1500 mg/m ³
FEBRUARY 2018	14/03/2018	- Sulphur dioxide	parts per million	Continuous	One hour	100.0%	227.6	308.4	389.6	600 ppm
FEBRUARY 2018	14/03/2018		milligrams per cubic metre	Continuous		100.0%	650.4	881.3	1113.5	-
FEBRUARY 2018	14/03/2018	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.6%	4.9%	10.8%	-
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/m ³
May-17	3/07/2017	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
May-17	3/07/2017	Carbon monoxide	ppm	1	1	97	
May-17	3/07/2017	Chlorine	milligrams per cubic metre	1	1	<0.006	200
May-17	3/07/2017	Copper	milligrams per cubic metre	1	1	0.0007	
May-17	3/07/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.011	5
May-17	3/07/2017	Hydrogen chloride	milligrams per cubic metre	1	1	22.0	100
May-17	3/07/2017	Mercury	milligrams per cubic metre	1	1	0.00130	1.0
May-17	3/07/2017	Nitrogen oxides	milligrams per cubic metre	1	1	720	1500
May-17	3/07/2017	Solid particles	milligrams per cubic metre	1	1	24.0	100
May-17	3/07/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	1.90	100
May-17	3/07/2017	Sulphur dioxide	milligrams per cubic metre	1	1	1100	
May-17	3/07/2017	Total fluoride	milligrams per cubic metre	1	1	11.0	50
Comments:	Monitoring of emiss 2017	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	oiler 3 tested on 30 May

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 2018	14/03/2018	- Nitrogen Oxides	parts per million	Continuous	One hour	99.1%	125.1	237.0	347.6	-
FEBRUARY 2018	14/03/2018		milligrams per cubic metre				256.8	486.4	713.5	1500 mg/m ³
FEBRUARY 2018	14/03/2018	Sulphur dioxide	parts per million	Continuous	One hour	100.0%	158.8	256.0	377.7	600 ppm
FEBRUARY 2018	14/03/2018		milligrams per cubic metre	Continuous		100.0%	454.0	731.7	1079.6	-
FEBRUARY 2018	14/03/2018	Opacity -Undifferentiated particles	Percent	Continuous	One hour	100.0%	1.8%	4.4%	8.2%	-
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
Jul-17	5/09/2017	Cadmium	milligrams per cubic metre	1	1	<0.0002	1.0
Jul-17	5/09/2017	Carbon monoxide	ppm	1	1	90	
Jul-17	5/09/2017	Chlorine	milligrams per cubic metre	1	1	0.0	200
Jul-17	5/09/2017	Copper	milligrams per cubic metre	1	1	0.0017	
Jul-17	5/09/2017	Hazardous substances (Metals)	milligrams per cubic metre	1	1	≤0.025	5
Jul-17	5/09/2017	Hydrogen chloride	milligrams per cubic metre	1	1	17.0	100
Jul-17	5/09/2017	Mercury	milligrams per cubic metre	1	1	0.00061	1.0
Jul-17	5/09/2017	Nitrogen oxides	milligrams per cubic metre	1	1	650	1500
Jul-17	5/09/2017	Solid particles	milligrams per cubic metre	1	1	48.0	100
Jul-17	5/09/2017	Sulfuric acid mist and sulfur trioxide	milligrams per cubic metre	1	1	2.40	100
Jul-17	5/09/2017	Sulphur dioxide	milligrams per cubic metre	1	1	750	
Jul-17	5/09/2017	Total fluoride	milligrams per cubic metre	1	1	10.0	50
Comments:	Monitoring of emiss 2017	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	piler 4 tested on 27 July

Licence condition number not complied with
NA
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