



01-Feb-23 12:00:00 AM 01-Mar-23 12:00:00 AM

Monthly Data Summary AGL Macquarie - Bayswater Power Station Environmental Protection License: EPL779

Combined air emissions from boiler 1 via Points 7 and 8 to Point 1 marked and shown as EPL Monitors ID No. 3 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	99.85%	259.51	439.61	797.41	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.85%	667.00	934.59	1,156.37	1700 mg/m3



Start Of Month	EndDate •				
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM				

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	18/01/2022 8:40:00 AM	0.00025	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	18/01/2022 1:50:00 PM	0.00350	20 mg/m3
Fluorine	mg/m3	Every 6 months	18/01/2022 1:50:00 PM	6.50000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	18/01/2022 1:50:00 PM	8.30000	50 mg/m3
Mercury	mg/m3	Every 6 months	18/01/2022 8:40:00 AM	0.00230	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	5/04/2022 8:00:00 AM	14.00000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	5/04/2022 8:00:00 AM	2.80000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	18/01/2022 8:40:00 AM	0.03500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	18/01/2022 2:40:00 PM	0.14243	10 mg/m3

Combined air emissions from boiler 2 via Points 9 and 10 to Point 1 marked and shown as EPL Monitors ID No. 4 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	90.61%	0.00	469.77	773.19	1500 mg/m3
SO2	mg/m3	Continuous when generating	90.61%	0.00	833.20	976.34	1700 mg/m3



Start Of Month	EndDate ▼				
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM				

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	19/01/2022 8:25:00 AM	0.00025	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	19/01/2022 1:25:00 PM	0.00250	20 mg/m3
Fluorine	mg/m3	Every 6 months	19/01/2022 1:25:00 PM	9.70000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	19/01/2022 1:25:00 PM	15.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	19/01/2022 8:25:00 AM	0.00220	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	24/05/2022 6:20:00 AM	2.40000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	24/05/2022 10:35:00 AM	9.00000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	19/01/2022 8:25:00 AM	0.03500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	19/01/2022 2:05:00 PM	0.18092	10 mg/m3

Combined air emissions from boiler 3 via Points 11 and 12 to Point 2 marked and shown as EPL Monitors ID No. 5 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	94.98%	293.40	661.94	1,021.69	1500 mg/m3
SO2	mg/m3	Continuous when generating	94.98%	629.96	923.87	1,110.66	1700 mg/m3



Start Of Month	EndDate ▼				
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM				

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	20/01/2022 8:30:00 AM	0.00015	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	20/01/2022 1:40:00 PM	0.00840	20 mg/m3
Fluorine	mg/m3	Every 6 months	20/01/2022 1:40:00 PM	8.60000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	20/01/2022 1:40:00 PM	12.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	20/01/2022 8:30:00 AM	0.00230	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	20/01/2022 8:30:00 AM	7.50000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	4/11/2021 9:05:00 AM	4.80000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	20/01/2022 8:30:00 AM	0.01500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	20/01/2022 2:35:00 PM	0.10798	10 mg/m3

Combined air emissions from boiler 4 via Points 13 and 14 to Point 2 marked and shown as EPL Monitors ID No. 6 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value	100th percentile concentration limits
NOx	mg/m3	Continuous when generating	97.73%	0.00	621.15	973.72	1500 mg/m3
SO2	mg/m3	Continuous when generating	97.73%	0.00	926.46	1,094.88	1700 mg/m3



Start Of Month	EndDate ▼				
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM				

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	21/01/2022 8:35:00 AM	0.00035	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	21/01/2022 12:15:00 PM	0.01000	20 mg/m3
Fluorine	mg/m3	Every 6 months	21/01/2022 12:15:00 PM	8.30000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	21/01/2022 12:15:00 PM	13.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	21/01/2022 8:35:00 AM	0.00320	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	27/04/2022 12:10:00 PM	4.50000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	27/04/2022 8:00:00 AM	2.00000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	21/01/2022 8:35:00 AM	0.01500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	21/01/2022 12:50:00 PM	0.10416	10 mg/m3

Boiler number 1 exhaust - duct A marked and shown as EPL Monitors ID No. 7 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	100.00%	5.99	441.48	797.48
SO2	mg/m3	Continuous when generating	100.00%	3.42	923.31	1,260.12



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	18/01/2022 9:40:00 AM	0.00025
Chlorine	mg/m3	Every 6 months	2	18/01/2022 1:50:00 PM	0.00350
CO2	%	Every 6 months	9	5/04/2022 9:13:00 AM	11.00000
Fluorine	mg/m3	Every 6 months	2	18/01/2022 1:50:00 PM	6.50000
Hydrogen Chloride	mg/m3	Every 6 months	2	18/01/2022 1:50:00 PM	8.30000
Mercury	mg/m3	Every 6 months	2	18/01/2022 9:40:00 AM	0.00150
Solid Particles	mg/m3	Quarterly	5	5/04/2022 8:00:00 AM	13.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	5/04/2022 8:00:00 AM	2.80000
Type 1&2 Substances	mg/m3	Every 6 months	2	18/01/2022 9:40:00 AM	0.01200
Volatile Organic Compounds	mg/m3	Every 6 months	2	18/01/2022 2:40:00 PM	0.14243

Boiler number 1 exhaust - duct B marked and shown as EPL Monitors ID No. 8 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	100.00%	60.48	382.58	618.56
SO2	mg/m3	Continuous when generating	100.00%	3.21	808.13	1,056.21



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	18/01/2022 10:35:00 AM	0.00044
CO2	%	Every 6 months	7	5/04/2022 1:09:00 PM	12.00000
Mercury	mg/m3	Every 6 months	2	18/01/2022 10:35:00 AM	0.00290
Solid Particles	mg/m3	Quarterly	5	5/04/2022 12:26:00 PM	16.00000
Type 1&2 Substances	mg/m3	Every 6 months	2	18/01/2022 10:35:00 AM	0.05500

Boiler number 2 exhaust - duct A marked and shown as EPL Monitors ID No. 9 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	92.78%	201.23	476.49	780.31
SO2	mg/m3	Continuous when generating	92.78%	614.49	891.52	1,038.48



Start Of Month	EndDate •		
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM		

Pollutant	Unit of measure	Sampling Frequency	Year Count Samples	Year Date of Sample	Year last measurement
Cadmium	mg/m3	Every 6 months	3	19/01/2022 9:25:00 AM	0.00095
CO2	%	Every 6 months	8	24/05/2022 6:36:00 AM	11.00000
Mercury	mg/m3	Every 6 months	3	19/01/2022 9:25:00 AM	0.00190
Solid Particles	mg/m3	Quarterly	6	24/05/2022 6:20:00 AM	2.80000
Type 1&2 Substances	mg/m3	Every 6 months	3	19/01/2022 9:25:00 AM	0.03400

Boiler number 2 exhaust - duct B marked and shown as EPL Monitors ID No. 10 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	92.78%	207.09	462.15	782.60
SO2	mg/m3	Continuous when generating	92.78%	510.95	776.14	916.73



Start Of Month	EndDate		
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM		

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	19/01/2022 9:20:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	3	19/01/2022 1:25:00 PM	0.00250
CO2	%	Every 6 months	11	24/05/2022 11:43:00 AM	11.00000
Fluorine	mg/m3	Every 6 months	3	19/01/2022 1:25:00 PM	9.70000
Hydrogen Chloride	mg/m3	Every 6 months	3	19/01/2022 1:25:00 PM	15.00000
Mercury	mg/m3	Every 6 months	3	19/01/2022 9:20:00 AM	0.00250
Solid Particles	mg/m3	Quarterly	6	24/05/2022 10:35:00 AM	1.90000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	24/05/2022 10:35:00 AM	9.00000
Type 1&2 Substances	mg/m3	Every 6 months	3	19/01/2022 9:20:00 AM	0.03350
Volatile Organic Compounds	mg/m3	Every 6 months	3	19/01/2022 2:05:00 PM	0.18092

Boiler number 3 exhaust - duct A marked and shown as EPL Monitors ID No. 11 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	100.00%	273.45	597.21	884.68
SO2	mg/m3	Continuous when generating	100.00%	549.90	826.52	1,229.87



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	20/01/2022 9:30:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	3	20/01/2022 1:40:00 PM	0.00840
CO2	%	Every 6 months	10	20/01/2022 1:56:00 PM	11.00000
Fluorine	mg/m3	Every 6 months	3	20/01/2022 1:40:00 PM	8.60000
Hydrogen Chloride	mg/m3	Every 6 months	3	20/01/2022 1:40:00 PM	12.00000
Mercury	mg/m3	Every 6 months	3	20/01/2022 9:30:00 AM	0.00200
Solid Particles	mg/m3	Quarterly	5	20/01/2022 9:30:00 AM	6.50000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	4/11/2021 9:05:00 AM	4.80000
Type 1&2 Substances	mg/m3	Every 6 months	3	20/01/2022 9:30:00 AM	0.01100
Volatile Organic Compounds	mg/m3	Every 6 months	3	20/01/2022 2:35:00 PM	0.10798

Boiler number 3 exhaust - duct B marked and shown as EPL Monitors ID No. 12 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	100.00%	313.27	726.04	1,176.11
SO2	mg/m3	Continuous when generating	100.00%	694.57	1,018.53	1,171.66



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	20/01/2022 9:55:00 AM	0.00046
CO2	%	Every 6 months	7	20/01/2022 9:49:00 AM	8.20000
Mercury	mg/m3	Every 6 months	3	20/01/2022 9:55:00 AM	0.00250
Solid Particles	mg/m3	Quarterly	5	20/01/2022 9:55:00 AM	8.50000
Type 1&2 Substances	mg/m3	Every 6 months	3	20/01/2022 9:55:00 AM	0.01450

Boiler number 4 exhaust - duct A marked and shown as EPL Monitors ID No. 13 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.25%	265.50	551.98	907.22
SO2	mg/m3	Continuous when generating	99.25%	565.83	804.45	1,014.20



Start Of Month	EndDate •
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	21/01/2022 9:35:00 AM	0.00120
CO2	%	Every 6 months	7	27/04/2022 12:16:00 PM	10.00000
Mercury	mg/m3	Every 6 months	2	21/01/2022 9:35:00 AM	0.00340
Solid Particles	mg/m3	Quarterly	5	27/04/2022 12:10:00 PM	5.30000
Type 1&2 Substances	mg/m3	Every 6 months	2	21/01/2022 9:35:00 AM	0.01350

Boiler number 4 exhaust - duct B marked and shown as EPL Monitors ID No. 14 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Values	Highest value
NOx	mg/m3	Continuous when generating	99.25%	140.29	693.50	1,108.83
SO2	mg/m3	Continuous when generating	99.25%	145.32	1,046.02	1,250.70



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest measurement
Cadmium	mg/m3	Every 6 months	2	21/01/2022 9:20:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	1	21/01/2022 12:15:00 PM	0.01000
CO2	%	Every 6 months	8	27/04/2022 8:03:00 AM	11.00000
Fluorine	mg/m3	Every 6 months	1	21/01/2022 12:15:00 PM	8.30000
Hydrogen Chloride	mg/m3	Every 6 months	1	21/01/2022 12:15:00 PM	13.00000
Mercury	mg/m3	Every 6 months	2	21/01/2022 9:20:00 AM	0.00290
Solid Particles	mg/m3	Quarterly	5	27/04/2022 8:00:00 AM	3.70000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	27/04/2022 8:00:00 AM	2.00000
Type 1&2 Substances	mg/m3	Every 6 months	2	21/01/2022 9:20:00 AM	0.01350
Volatile Organic Compounds	mg/m3	Every 6 months	1	21/01/2022 12:50:00 PM	0.10416



Start Of Month EndDate 01-Feb-23 12:00:00 AM 01-Mar-23 12:00:00 AM

Discharge from cooling towers to Tinkers Creek marked and shown as EPL Monitors ID No. 19 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Month Count Measure	Lowest Value Mean Value Highest Value 100th perce		100th percentile concentration limits	
Conductivity	uS/cm	Continuous during discharge	100.00%	8009	152.00000	2746.21622	3918.00000	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	100.00% 2 1.00000 1.00000		1.00000	10 mg/L		
рН	pH units	Continuous during discharge	100.00%	8009	7.48000	8.05583	8.42000	9 pH units
Pollutant	Unit of measure	Sampling Frequency	Month Count Measure	Month Sum Measure 100th percentile			100th percentile concentration limits	
Volume	ML/d	Daily	28	317.00 840 ML/d				

EPA Monitoring Point 20

Discharge from main station oil and water separator holding basin to Tinkers Creek marked and shown as EPL Monitors ID No. 20 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Samples collected	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Oil and Grease	mg/L	Fortnightly	4	1.00000	1.25000	2.00000	10 mg/L
Suspended Solids	mg/L	Fortnightly	4	2.50000	3.12500	5.00000	30 mg/L
Volume	kL/d	Daily	4	0.00000	2049.50000	19559.00000	36400 kL/d

Discharge from Bayswater Ash Dam unlined flood spillway (located near left abutment) to Chilcotts Creek marked and shown as EPL Monitors ID No. 21 on The Plans

Pollutant ▲	Unit of measure	Sampling Frequency	Samples collected	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Boron	mg/L	Weekly during discharge	6	2.18000	2.99000	4.26000	
Cadmium	mg/L	Weekly during discharge	6	0.00005	0.00005	0.00005	
Conductivity	uS/cm	Continuous during discharge	6	2880.00000	4675.00000	8800.00000	
Copper	mg/L	Weekly during discharge	6	0.00050	0.00758	0.04000	
Iron	mg/L	Weekly during discharge	6	0.12000	0.23167	0.31000	
Molybdenum	mg/L	Weekly during discharge	6	0.11000	0.15650	0.19100	
Nickel	mg/L	Weekly during discharge	6	0.00400	0.01950	0.05700	
рН	pH units	Weekly during discharge	6	7.66000	8.09500	8.49000	
Silver	mg/L	Weekly during discharge	6	0.00050	0.00050	0.00050	
Volume	kL/d	Daily	19	0.00000	6742.28571	31363.20000	



Start Of Month	EndDate ▼
01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM



Discharge of recirculated water from the Hunter River to Lake Liddell marked and shown as EPL Monitors ID No. 22 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Samples collected	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Volume	ML/d	Daily	26	9.08849	22.28299	58.90679	

01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM

EPA Monitoring Point 23

Discharge of saline water under the Hunter River Salinity Trading Scheme, Discharge water quality monitoring, Volume monitoring. Discharge of saline wates from discharge pipe from the Lake Liddell dam wall marked and shown as EPL Monitors ID No. 23 on The Plans

Pollutant	Unit of measure	Sampling Frequency	Samples Performance	Lowest Value	Mean Value	Highest Value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge					
рН	pH units	Daily during discharge					8.5 pH units
Suspended Solids	mg/L	Daily during discharge					30 mg/L

Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Value	Highest Value	100th percentile concentration limits
Volume	ML/d	Daily					700 ML/d

Discharge of saline waters from inlet pipe located at the Void 4 pontoon pump system marked and shown as EPL Monitors ID No. 24 on The Plans



Pollutant Unit of measure		Jnit of measure Sampling Frequency		Unit of measure Sampling Frequency Samples		of measure Sampling Frequency Samples collected lowest value Mean Value Hig		Highest Value	100th percentile concentration limits]	_
								Start Of Month	EndDate		
Boron	mg/L	Weekly during discharge					0.81 mg/L	01-Feb-23 12:00:00 AM	01-Mar-23 12:00:00 AM		
Cadmium	mg/L	Weekly during discharge					0.2 mg/L	'			
Conductivity	uS/cm	Continuous during discharge									
Copper	mg/L	Weekly during discharge					0.001 mg/L				
Iron	mg/L	Weekly during discharge					0.27 mg/L				
Molybdenum	mg/L	Weekly during discharge					0.29 mg/L				
Nickel	mg/L	Weekly during discharge					0.019 mg/L				
рН	pH units	Weekly during discharge					9.5 pH units				
Silver	mg/L	Weekly during discharge					0.0005 mg/L				
Suspended Solids	mg/L	Monthly during discharge					30 mg/L				
Volume	ML/d	Daily		0.00000	0.00000	0.00000	20 ML/d				

Details of Non-Compliance with Licence Conditions

WORDS)

Start Time Summary of particulars of the non- If required, further details on compliance (NO MORE THAN 50 particulars of non-compliance Date(s) when the non-compliance Cause of non-compliance occurred, if applicable

No incidents for the last month

Mitigation Action taken or that will be taken to prevent a recurrence of the non-compliance