



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					1500 mg/m3
SO2	mg/m3	Continuous when generating					1700 mg/m3

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	21/02/2023 8:15:00 AM	0.00015	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	21/02/2023 12:25:00 PM	0.01000	20 mg/m3
Fluorine	mg/m3	Every 6 months	21/02/2023 12:25:00 PM	8.90000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	21/02/2023 12:25:00 PM	17.51000	50 mg/m3
Mercury	mg/m3	Every 6 months	21/02/2023 8:15:00 AM	0.00360	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	13/04/2023 6:40:00 AM	11.00000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	22/02/2023 7:55:00 AM	8.61800	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	21/02/2023 8:15:00 AM	0.02000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	21/02/2023 2:19:00 PM	0.05000	10 mg/m3



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.72%	224.36	587.62	1,267.37	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.31%	501.38	834.41	1,114.29	1700 mg/m3

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	16/02/2023 8:12:00 AM	0.00010	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	15/02/2023 1:55:00 PM	0.01000	20 mg/m3
Fluorine	mg/m3	Every 6 months	15/02/2023 1:55:00 PM	4.00000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	15/02/2023 1:55:00 PM	8.80000	50 mg/m3
Mercury	mg/m3	Every 6 months	16/02/2023 8:12:00 AM	0.00250	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	16/05/2023 8:10:00 AM	14.00000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	16/02/2023 12:35:00 PM	2.40000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	16/02/2023 8:12:00 AM	0.01000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	15/02/2023 1:57:00 PM	0.03000	10 mg/m3



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.87%	264.10	574.65	1,011.29	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.87%	517.06	948.71	1,238.03	1700 mg/m3

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	17/02/2023 7:45:00 AM	0.00015	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	16/02/2023 12:53:00 PM	0.07000	20 mg/m3
Fluorine	mg/m3	Every 6 months	16/02/2023 12:53:00 PM	9.04000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	16/02/2023 12:53:00 PM	21.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	17/02/2023 7:45:00 AM	0.00360	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	12/04/2023 6:45:00 AM	3.60000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	17/02/2023 11:54:00 AM	6.00000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	17/02/2023 7:45:00 AM	0.04000	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	16/02/2023 1:36:00 PM	0.09779	10 mg/m3



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.86%	224.17	643.29	1,042.42	1500 mg/m3
SO2	mg/m3	Continuous when generating	99.86%	510.63	934.10	1,289.14	1700 mg/m3

Pollutant	Unit of measure	Sampling Frequency	Date of Last Sample	Latest Value	100th percentile concentration limits
Cadmium	mg/m3	Every 6 months	23/02/2023 7:55:00 AM	0.00015	0.2 mg/m3
Chlorine	mg/m3	Every 6 months	23/02/2023 12:05:00 PM	0.08000	20 mg/m3
Fluorine	mg/m3	Every 6 months	23/02/2023 12:05:00 PM	7.70000	30 mg/m3
Hydrogen Chloride	mg/m3	Every 6 months	23/02/2023 12:05:00 PM	11.00000	50 mg/m3
Mercury	mg/m3	Every 6 months	23/02/2023 7:55:00 AM	0.00540	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	12/04/2023 11:37:00 AM	3.80000	50 mg/m3
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	22/02/2023 12:34:00 PM	0.85000	100 mg/m3
Type 1&2 Substances	mg/m3	Every 6 months	23/02/2023 7:55:00 AM	0.01500	0.75 mg/m3
Volatile Organic Compounds	mg/m3	Every 6 months	23/02/2023 1:30:00 PM	0.04500	10 mg/m3



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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				
SO2	mg/m3	Continuous when generating				

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	21/02/2023 8:15:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	2	21/02/2023 12:25:00 PM	0.01000
CO2	%	Every 6 months	9	13/04/2023 6:45:00 AM	9.76600
Fluorine	mg/m3	Every 6 months	2	21/02/2023 12:25:00 PM	8.90000
Hydrogen Chloride	mg/m3	Every 6 months	2	21/02/2023 12:25:00 PM	17.51000
Mercury	mg/m3	Every 6 months	2	21/02/2023 8:15:00 AM	0.00360
Solid Particles	mg/m3	Quarterly	4	13/04/2023 6:40:00 AM	17.98000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	22/02/2023 7:55:00 AM	8.61800
Type 1&2 Substances	mg/m3	Every 6 months	2	21/02/2023 8:15:00 AM	0.01000
Volatile Organic Compounds	mg/m3	Every 6 months	2	21/02/2023 2:19:00 PM	0.05000



Start Of Month	EndDate ▼		
01_Oct_23 12:00:00 AM	01-Nov-23 12:00:00 AM		

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				
SO2	mg/m3	Continuous when generating				

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	21/02/2023 8:37:00 AM	0.00015
CO2	%	Every 6 months	5	13/04/2023 7:05:00 AM	10.35000
Mercury	mg/m3	Every 6 months	2	21/02/2023 8:37:00 AM	0.00370
Solid Particles	mg/m3	Quarterly	4	13/04/2023 7:05:00 AM	2.88400
Type 1&2 Substances	mg/m3	Every 6 months	2	21/02/2023 8:37:00 AM	0.02550



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.86%	236.74	589.14	931.05
SO2	mg/m3	Continuous when generating	99.86%	604.76	962.88	1,284.07

Pollutant	Unit of measure	Sampling Frequency	Year Count Samples	Year Date of Sample	Year last measurement
Cadmium	mg/m3	Every 6 months	2	16/02/2023 8:12:00 AM	0.00010
CO2	%	Every 6 months	6	16/05/2023 8:21:00 AM	10.65700
Mercury	mg/m3	Every 6 months	2	16/02/2023 8:12:00 AM	0.00160
Solid Particles	mg/m3	Quarterly	5	16/05/2023 8:10:00 AM	15.00500
Type 1&2 Substances	mg/m3	Every 6 months	2	16/02/2023 8:12:00 AM	0.01050



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.86%	223.02	595.69	8,185.61
SO2	mg/m3	Continuous when generating	99.59%	392.14	711.07	2,470.97

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Antimony	mg/m3	Every 6 months	2	16/02/2023 8:20:00 AM	0.00100
Cadmium	mg/m3	Every 6 months	2	16/02/2023 8:20:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	2	15/02/2023 1:55:00 PM	0.01000
CO2	%	Every 6 months	10	16/05/2023 8:01:00 AM	11.87600
Fluorine	mg/m3	Every 6 months	2	15/02/2023 1:55:00 PM	4.00000
Hydrogen Chloride	mg/m3	Every 6 months	2	15/02/2023 1:55:00 PM	8.80000
Mercury	mg/m3	Every 6 months	2	16/02/2023 8:20:00 AM	0.00350
Solid Particles	mg/m3	Quarterly	5	16/05/2023 8:05:00 AM	13.42000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	3	16/02/2023 12:35:00 PM	2.40000
Type 1&2 Substances	mg/m3	Every 6 months	2	16/02/2023 8:20:00 AM	0.00950
Volatile Organic Compounds	mg/m3	Every 6 months	2	15/02/2023 1:57:00 PM	0.03000



Start Of Month	EndDate •
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	97.71%	271.55	585.26	1,087.19
SO2	mg/m3	Continuous when generating	97.71%	474.66	936.49	1,274.57

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	17/02/2023 7:45:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	2	16/02/2023 12:53:00 PM	0.07000
CO2	%	Every 6 months	9	12/04/2023 6:46:00 AM	11.90000
Fluorine	mg/m3	Every 6 months	2	16/02/2023 12:53:00 PM	9.04000
Hydrogen Chloride	mg/m3	Every 6 months	2	16/02/2023 12:53:00 PM	21.00000
Mercury	mg/m3	Every 6 months	2	17/02/2023 7:45:00 AM	0.00250
Solid Particles	mg/m3	Quarterly	4	12/04/2023 6:45:00 AM	3.54600
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	17/02/2023 11:54:00 AM	6.00000
Type 1&2 Substances	mg/m3	Every 6 months	2	17/02/2023 7:45:00 AM	0.02550
Volatile Organic Compounds	mg/m3	Every 6 months	2	16/02/2023 1:36:00 PM	0.09779



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.87%	246.02	564.77	942.52
SO2	mg/m3	Continuous when generating	99.87%	563.76	964.99	1,223.18

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	17/02/2023 8:36:00 AM	0.00015
CO2	%	Every 6 months	5	12/04/2023 6:50:00 AM	11.19000
Mercury	mg/m3	Every 6 months	2	17/02/2023 8:36:00 AM	0.00500
Solid Particles	mg/m3	Quarterly	4	12/04/2023 6:50:00 AM	3.69800
Type 1&2 Substances	mg/m3	Every 6 months	2	17/02/2023 8:36:00 AM	0.05500



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	98.78%	210.07	557.70	834.72
SO2	mg/m3	Continuous when generating	98.78%	411.96	832.95	1,185.33

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.00020
CO2	%	Every 6 months	5	12/04/2023 11:37:00 AM	10.96000
Mercury	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.00600
Solid Particles	mg/m3	Quarterly	4	12/04/2023 11:37:00 AM	5.72900
Type 1&2 Substances	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.01800



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM

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	99.73%	228.45	725.97	1,299.19
SO2	mg/m3	Continuous when generating	99.73%	581.37	1,031.16	1,415.10

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest measurement
Cadmium	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	2	23/02/2023 12:05:00 PM	0.08000
CO2	%	Every 6 months	9	12/04/2023 11:30:00 AM	11.27000
Fine Particulates PM10	mg/m3	Every 6 months	1	21/12/2022 11:50:00 AM	2.20000
Fluorine	mg/m3	Every 6 months	2	23/02/2023 12:05:00 PM	7.70000
Hydrogen Chloride	mg/m3	Every 6 months	2	23/02/2023 12:05:00 PM	11.00000
Mercury	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.00480
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	2	22/02/2023 12:34:00 PM	0.85000
Type 1&2 Substances	mg/m3	Every 6 months	2	23/02/2023 7:55:00 AM	0.01150
Volatile Organic Compounds	mg/m3	Every 6 months	2	23/02/2023 1:30:00 PM	0.04500



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-23 12:00:00 AM



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-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 percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	0.00%	8898	1.00000	2978.71979	3761.00000	4500 uS/cm
Oil and Grease	nd Grease mg/L Fortnightly		0.00%	3	1.00000	1.00000	1.00000	10 mg/L
рН	pH units	Continuous during discharge	0.00%	8899	8.04000	8.24088	8.46000	9 pH units
Pollutant	Unit of measure	Sampling Frequency	Month Count Measure ▼	Month Sum Measure			100th percentile concentration limits	
Volume	ML/d	Daily	30			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	5	1.00000	1.00000	1.00000	10 mg/L
Suspended Solids	mg/L	Fortnightly	5	2.50000	2.50000	2.50000	30 mg/L
Volume	kL/d	Daily	5	0.00000	2945.54839	20912.00000	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
Boron	mg/L	Weekly during discharge	4	1.18000	1.74750	2.17000
Cadmium	mg/L	Weekly during discharge	4	0.00005	0.00005	0.00005
Conductivity	uS/cm	Continuous during discharge	4	1860.00000	2150.00000	2440.00000
Copper	mg/L	Weekly during discharge	4	0.00200	0.00250	0.00400
Iron	mg/L	Weekly during discharge	4	0.20000	0.25000	0.35000
Molybdenum	mg/L	Weekly during discharge	4	0.11000	0.13350	0.15400
Nickel	mg/L	Weekly during discharge	4	0.00400	0.00450	0.00600
рН	pH units	Weekly during discharge	4	8.19000	8.38000	8.58000
Silver	mg/L	Weekly during discharge	4	0.00050	0.00050	0.00050
Volume	kL/d	Daily	9	0.00000	10628.59355	115387.20000



Start Of Month	EndDate ▼
01-Oct-23 12:00:00 AM	01-Nov-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	30	17.02151	37.69454	50.48121	0 ML/d



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					0 uS/cm
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		0.00000	0.00000	0.00000	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	Sampling Frequency	Samples collected	lowest value	Mean Value	Highest Value	100th percentile concentration limits
Boron	mg/L	Weekly during discharge					0.81 mg/L
Cadmium	mg/L	Weekly during discharge					0.2 mg/L
Conductivity	uS/cm	Continuous during discharge					0 uS/cm
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



Start Of Month	EndDate ▼
01-Oct-23 12:00:00	AM 01-Nov-23 12:00:00 AM

Details of Non- Compliance with Licence Conditions	Start Time ▼	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	Cause of non-compliance	Mitigation
	▼	Unauthorised discharge to Bayswater creek from Lake Liddell seepage collection area.	SP2 pump had flat battery resulted SP2 bund got overboard and water discharged to Bayswater Creek.	06/10/2023	SP2 pump had flat battery and no electrical pumps were in operation due to no power supply.	PS-02 pump was diagnosed with a faulty battery, so a second battery was made available and put on standle an

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