



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	100.00%	253.90	487.55	687.38	1500 mg/m3
SO2	mg/m3	Continuous when generating	100.00%	665.78	905.41	1,176.43	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	25/08/2022 7:57:00 AM	0.00010	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	25/08/2022 7:57:00 AM	0.00230	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	25/08/2022 7:57:00 AM	10.00000	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	25/08/2022 7:57:00 AM	0.04500	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-Mar-23 12:00:00 AM	01-Apr-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	97.82%	0.00	504.08	932.35	1500 mg/m3
SO2	mg/m3	Continuous when generating	97.82%	0.00	851.65	1,235.76	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	23/08/2022 9:11:00 AM	0.00015	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	23/08/2022 9:11:00 AM	0.00320	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	23/08/2022 9:11:00 AM	7.40000	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	23/08/2022 9:11:00 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-Mar-23 12:00:00 AM	01-Apr-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	2.88%	300.02	541.89	874.36	1500 mg/m3
SO2	mg/m3	Continuous when generating	2.88%	715.43	779.64	833.47	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	13/10/2022 7:55:00 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	13/10/2022 7:55:00 AM	0.00190	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	15/12/2022 8:15:00 AM	15.00000	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	13/10/2022 7:55:00 AM	0.01000	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-Mar-23 12:00:00 AM	01-Apr-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	100.00%	248.28	704.49	1,042.25	1500 mg/m3
SO2	mg/m3	Continuous when generating	100.00%	482.90	958.78	1,318.47	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	22/12/2022 7:40:00 AM	0.00035	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	22/12/2022 7:40:00 AM	0.00320	0.05 mg/m3
Solid Particles	mg/m3	Quarterly	22/12/2022 7:40:00 AM	2.80000	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	22/12/2022 7:40:00 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-Mar-23 12:00:00 AM	01-Apr-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	100.00%	252.68	482.18	696.11
SO2	mg/m3	Continuous when generating	100.00%	607.02	902.90	1,178.65

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	4	21/02/2023 8:15:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	4	21/02/2023 12:25:00 PM	0.01000
CO2	%	Every 6 months	17	22/02/2023 7:55:00 AM	7.30000
Fluorine	mg/m3	Every 6 months	4	21/02/2023 12:25:00 PM	8.90000
Hydrogen Chloride	mg/m3	Every 6 months	4	21/02/2023 12:25:00 PM	17.51000
Mercury	mg/m3	Every 6 months	4	21/02/2023 8:15:00 AM	0.00360
Solid Particles	mg/m3	Quarterly	8	21/02/2023 8:15:00 AM	10.97000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	5	22/02/2023 7:55:00 AM	8.61800
Type 1&2 Substances	mg/m3	Every 6 months	4	21/02/2023 8:15:00 AM	0.01000
Volatile Organic Compounds	mg/m3	Every 6 months	4	21/02/2023 2:19:00 PM	0.05000



Start Of Month	EndDate ▼		
01-Mar-23 12:00:00 AM	01-Apr-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	100.00%	237.88	501.99	719.28
SO2	mg/m3	Continuous when generating	100.00%	670.78	896.74	1,135.85

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	4	21/02/2023 8:37:00 AM	0.00015
CO2	%	Every 6 months	11	21/02/2023 8:39:00 AM	10.35000
Mercury	mg/m3	Every 6 months	4	21/02/2023 8:37:00 AM	0.00370
Solid Particles	mg/m3	Quarterly	8	21/02/2023 8:37:00 AM	10.13000
Type 1&2 Substances	mg/m3	Every 6 months	4	21/02/2023 8:37:00 AM	0.02550



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

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	98.13%	238.59	516.14	965.88
SO2	mg/m3	Continuous when generating	98.13%	672.50	917.07	1,237.08

Pollutant	Unit of measure	Sampling Frequency	Year Count Samples	Year Date of Sample	Year last measurement
Cadmium	mg/m3	Every 6 months	4	16/02/2023 8:12:00 AM	0.00010
CO2	%	Every 6 months	11	16/02/2023 8:20:00 AM	9.44100
Mercury	mg/m3	Every 6 months	4	16/02/2023 8:12:00 AM	0.00160
Solid Particles	mg/m3	Quarterly	8	16/02/2023 8:12:00 AM	3.61500
Type 1&2 Substances	mg/m3	Every 6 months	4	16/02/2023 8:12:00 AM	0.01050



Start Of Month	EndDate ▼
01-Mar-23 12:00:00 AM	01-Apr-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	95.80%	0.00	476.35	896.68
SO2	mg/m3	Continuous when generating	95.80%	0.00	768.65	1,106.60

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	3	23/08/2022 8:10:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	4	15/02/2023 1:55:00 PM	0.01000
CO2	%	Every 6 months	16	16/02/2023 12:35:00 PM	11.00000
Fluorine	mg/m3	Every 6 months	4	15/02/2023 1:55:00 PM	4.00000
Hydrogen Chloride	mg/m3	Every 6 months	4	15/02/2023 1:55:00 PM	8.80000
Mercury	mg/m3	Every 6 months	3	23/08/2022 8:10:00 AM	0.00360
Solid Particles	mg/m3	Quarterly	7	19/10/2022 7:40:00 AM	10.00000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	5	16/02/2023 12:35:00 PM	2.40000
Type 1&2 Substances	mg/m3	Every 6 months	3	23/08/2022 8:10:00 AM	0.00900
Volatile Organic Compounds	mg/m3	Every 6 months	4	15/02/2023 1:57:00 PM	0.03000



Start Of Month	EndDate •		
01-Mar-23 12:00:00 AM	01-Apr-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	2.59%	273.17	501.78	822.96
SO2	mg/m3	Continuous when generating	2.59%	615.07	685.37	757.39

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	4	17/02/2023 7:45:00 AM	0.00015
Chlorine	mg/m3	Every 6 months	4	16/02/2023 12:53:00 PM	0.07000
CO2	%	Every 6 months	16	17/02/2023 11:54:00 AM	9.50000
Fluorine	mg/m3	Every 6 months	4	16/02/2023 12:53:00 PM	9.04000
Hydrogen Chloride	mg/m3	Every 6 months	4	16/02/2023 12:53:00 PM	21.00000
Mercury	mg/m3	Every 6 months	4	17/02/2023 7:45:00 AM	0.00250
Solid Particles	mg/m3	Quarterly	7	17/02/2023 7:45:00 AM	4.24100
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	4	17/02/2023 11:54:00 AM	6.00000
Type 1&2 Substances	mg/m3	Every 6 months	4	17/02/2023 7:45:00 AM	0.02550
Volatile Organic Compounds	mg/m3	Every 6 months	4	16/02/2023 1:36:00 PM	0.09779



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

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	2.59%	329.88	593.24	926.59
SO2	mg/m3	Continuous when generating	2.59%	812.60	878.06	932.29

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	4	17/02/2023 8:36:00 AM	0.00015
CO2	%	Every 6 months	10	17/02/2023 8:36:00 AM	11.00000
Mercury	mg/m3	Every 6 months	4	17/02/2023 8:36:00 AM	0.00500
Solid Particles	mg/m3	Quarterly	7	17/02/2023 8:36:00 AM	6.20000
Type 1&2 Substances	mg/m3	Every 6 months	4	17/02/2023 8:36:00 AM	0.05500



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

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	100.00%	232.55	639.50	956.83
SO2	mg/m3	Continuous when generating	100.00%	608.33	851.33	1,179.59

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest Value
Cadmium	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.00020
CO2	%	Every 6 months	11	23/02/2023 12:00:00 PM	8.40000
Mercury	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.00600
Solid Particles	mg/m3	Quarterly	8	23/02/2023 7:55:00 AM	4.30000
Type 1&2 Substances	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.01800



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

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	100.00%	56.14	761.50	1,295.72
SO2	mg/m3	Continuous when generating	100.00%	20.52	1,058.60	1,456.80

Pollutant	Unit of measure	Sampling Frequency	Count (12 Months)	Date of Last Sample	Latest measurement
Cadmium	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.00010
Chlorine	mg/m3	Every 6 months	3	23/02/2023 12:05:00 PM	0.08000
CO2	%	Every 6 months	15	23/02/2023 12:05:00 PM	9.50000
Fluorine	mg/m3	Every 6 months	3	23/02/2023 12:05:00 PM	7.70000
Hydrogen Chloride	mg/m3	Every 6 months	3	23/02/2023 12:05:00 PM	11.00000
Mercury	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.00480
Solid Particles	mg/m3	Quarterly	8	23/02/2023 7:55:00 AM	9.02000
Sulfur Trioxide and/or Sulfuric Acid as SO3	mg/m3	Every 6 months	4	22/02/2023 12:34:00 PM	0.85000
Type 1&2 Substances	mg/m3	Every 6 months	4	23/02/2023 7:55:00 AM	0.01150
Volatile Organic Compounds	mg/m3	Every 6 months	3	23/02/2023 1:30:00 PM	0.04500



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



Start Of Month EndDate

01-Mar-23 12:00:00 AM 01-Apr-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	99.99%	7616	387.63680	2570.64519	4173.00000	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	99.99%	7616	5.89000	7.89033	8.97000	9 pH units
Pollutant	Unit of measure	Sampling Frequency	Month Count Measure ▼	Month Sum Measure			100th percentile concentration limits	
Volume	ML/d	Daily	30	227.00			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	1.00000	1.00000	10 mg/L
Suspended Solids	mg/L	Fortnightly	4	2.50000	3.37500	6.00000	30 mg/L
Volume	kL/d	Daily	4	0.00000	2444.22581	25259.00000	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	2	2.90000	3.00500	3.11000	
Cadmium	mg/L	Weekly during discharge	2	0.00005	0.00013	0.00020	
Conductivity	uS/cm	Continuous during discharge	2	6540.00000	8970.00000	11400.00000	
Copper	mg/L	Weekly during discharge	2	0.00050	0.00050	0.00050	
Iron	mg/L	Weekly during discharge	2	0.25000	0.42000	0.59000	
Molybdenum	mg/L	Weekly during discharge	2	0.09600	0.12250	0.14900	
Nickel	mg/L	Weekly during discharge	2	0.01200	0.02050	0.02900	
рН	pH units	Weekly during discharge	2	7.70000	8.20000	8.70000	
Silver	mg/L	Weekly during discharge	2	0.00050	0.00050	0.00050	
Volume	kL/d	Daily	6	0.00000	3316.64518	39139.19922	



Start Of Month	EndDate ▼
01-Mar-23 12:00:00 AM	01-Apr-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	29	6.83764	48.63202	59.34623	



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

١	Pollutant	Unit of measure	Sampling Frequency	Sampling Performance	Lowest value	Mean Value	Highest Value	100th percentile concentration limits
١	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	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					
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-Mar-23 12:00:00 AM	01-Apr-23 12:00:00 AM				

No incidents for the last month