

Monthly Data Summary

Environmental Protection Licence 779

AGL Macquarie - Bayswater Power Station

Monitoring Period

JULY 2022



Discharge & Monitoring Point 3

Air emission monitoring - Combined air emissions from boiler 1 via Points 7 and 8 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous	100.0%	214.2	680.0	796.6	1500 mg/m ³
Sulfur dioxide	mg/m ³	Continuous	100.0%	770.6	946.9	1086.2	1700 mg/m ³

In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m³ and 1400 mg/m³ apply to Nitrogen oxides and Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	24/08/2021	0.000150	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	24/08/2021	0.007600	20 mg/m ³
Fluorine	mg/m ³	Six monthly	24/08/2021	8.3	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	24/08/2021	12.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	24/08/2021	0.0023	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	24/08/2021	11.69	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	24/08/2021	1.70	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	24/08/2021	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	24/08/2021	0.05	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 4

Air emission monitoring - Combined air emissions from boiler 2 via Points 9 and 10 to Point 1

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m ³	Continuous	100.00%	428.9	745.8	1038.2	1500 mg/m ³
Sulfur Dioxide	mg/m ³	Continuous	100.00%	687.5	851.4	1023.4	1700 mg/m ³

In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m³ and 1400 mg/m³ apply to Nitrogen oxides and Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m ³	Six monthly	22/09/2021	0.000125	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	22/09/2021	0.003500	20 mg/m ³
Fluorine	mg/m ³	Six monthly	22/09/2021	15.0	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	22/09/2021	26.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	22/09/2021	0.0024	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	22/09/2021	4.87	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	22/09/2021	4.90	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	22/09/2021	0.0070	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	22/09/2021	0.03	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 5

Air emission monitoring - Combined air emissions from boiler 3 via Points 11 and 12 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continuous	100.00%	143.7	452.7	761.7	1500 mg/m ³
Sulfur Dioxide	mg/m3	Continuous	100.00%	408.4	727.1	925.6	1700 mg/m ³
Out of service							

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	29/09/2021	0.000100	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	29/09/2021	0.003000	20 mg/m ³
Fluorine	mg/m3	Six monthly	29/09/2021	15.0	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	29/09/2021	19.0	50 mg/m ³
Mercury	mg/m3	Six monthly	29/09/2021	0.0020	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	29/09/2021	5.56	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m3	Six monthly	29/09/2021	4.80	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	29/09/2021	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	29/09/2021	0.10	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 6

Air emission monitoring - Combined air emissions from boiler 4 via Points 13 and 14 to Point 2

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample values	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continuous	100.00%	578.0	890.5	1014.5	1500 mg/m ³
Sulfur Dioxide	mg/m3	Continuous	100.00%	698.9	896.2	1061.6	1700 mg/m ³

In addition to the 100th percentile concentration limits, 99th percentile concentration limits of 1100 mg/m3 and 1400 mg/m3 apply to Nitrogen oxides and Sulfur dioxide, respectively .

Pollutant	Unit of measure	No. of samples required by licence	Date of sample	Most recent result	100th percentile concentration limits
Cadmium	mg/m3	Six monthly	27/08/2021	0.000125	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	27/08/2021	0.007100	20 mg/m ³
Fluorine	mg/m3	Six monthly	27/08/2021	7.9	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	27/08/2021	16.0	50 mg/m ³
Mercury	mg/m3	Six monthly	27/08/2021	0.0013	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	27/08/2021	6.92	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m3	Six monthly	27/08/2021	7.60	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	27/08/2021	0.006	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	27/08/2021	0.04	10 mg/m ³

Measured concentrations from the boiler's A and B ducts are used to calculate the concentrations from the boiler. Some of the duct concentrations for some substances may be reported as less than the relevant Limit of Detection, in which case the calculation uses 50% of the Limit of Detection value, in accordance with LBL Protocol rules.

The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

EPA Identification Number 7

Air emission monitoring - Boiler number 1 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	214.2	680.0	796.6
Sulfur Dioxide	mg/m3	Continuous	100.00%	770.6	946.9	1086.2
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	percent	degrees Celsius				

Pollutant	Unit of measure	No. of samples required by licence	# No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	24/08/2021	<0.0003
Chlorine	mg/m3	Six monthly	2	24/08/2021	0.0076
Fluorine	mg/m3	Six monthly	2	24/08/2021	8.3
Hydrogen chloride	mg/m3	Six monthly	2	24/08/2021	12
Mercury	mg/m3	Six monthly	2	24/08/2021	0.0014
Solid Particles	mg/m3	Quarterly	4	5/04/2022	13
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	4/05/2021	2.4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	24/08/2021	<0.021
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	4/05/2021	<0.09
Carbon dioxide	percent	Six monthly	2	24/08/2021	9.6

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 8

Air emission monitoring - Boiler number 1 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	1/10/2019	<0.0003
Mercury	mg/m3	Six monthly	2	24/08/2021	0.0031
Solid Particles	mg/m3	Quarterly	4	5/04/2022	16
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	24/08/2021	<0.016

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 9

Air emission monitoring - Boiler number 2 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	25/10/2018	<0.0002
Mercury	mg/m3	Six monthly	2	22/09/2021	0.0028
Solid Particles	mg/m3	Quarterly	4	24/04/2022	2.8
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	22/09/2021	<0.014

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 10

Air emission monitoring - Boiler number 2 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	428.9	745.8	1038.2
Sulfur Dioxide	mg/m3	Continuous	100.00%	687.5	851.4	1023.4
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	23/09/2020	<0.0003
Chlorine	mg/m3	Six monthly	2	21/09/2021	<0.007
Fluorine	mg/m3	Six monthly	2	21/09/2021	15
Hydrogen chloride	mg/m3	Six monthly	2	21/09/2021	26
Mercury	mg/m3	Six monthly	2	21/09/2021	0.002
Solid Particles	mg/m3	Quarterly	4	24/04/2022	1.9
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	26/11/2020	2.4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/03/2021	<0.014
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	21/09/2021	<0.05
Carbon dioxide	percent	Six monthly	2	21/09/2021	11.7

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 11

Air emission monitoring - Boiler number 3 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	143.7	452.7	761.7
Sulfur Dioxide	mg/m3	Continuous	100.00%	408.4	727.1	925.6
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	2/04/2019	<0.0002
Chlorine	mg/m3	Six monthly	2	29/09/2021	<0.006
Fluorine	mg/m3	Six monthly	2	29/09/2021	15
Hydrogen chloride	mg/m3	Six monthly	2	29/09/2021	19
Mercury	mg/m3	Six monthly	2	29/09/2021	0.0018
Solid Particles	mg/m3	Quarterly	4	20/01/2022	6.5
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	5/05/2021	4
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	29/09/2021	<0.016
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	29/09/2021	0.095
Carbon dioxide	percent	Six monthly	2	29/09/2021	10.7

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 12

Air emission monitoring - Boiler number 3 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	26/05/2020	<0.0002
Mercury	mg/m3	Six monthly	2	30/09/2021	0.0021
Solid Particles	mg/m3	Quarterly	4	4/11/2021	8.5
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	30/09/2021	<0.019

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that # Number of samples from the duct in the year to date

EPA Identification Number 13

Air emission monitoring - Boiler number 4 exhaust - duct A

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	22/09/2020	<0.0002
Mercury	mg/m3	Six monthly	2	27/08/2021	0.0005
Solid Particles	mg/m3	Quarterly	4	27/04/2022	5.3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	27/08/2021	<0.0091

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

EPA Identification Number 14

Air emission monitoring - Boiler number 4 exhaust - duct B

Pollutant	Unit of measure	No. of samples required by licence	Data capture %	Lowest sample value	Mean of sample	Highest sample value
Nitrogen Oxides	mg/m3	Continuous	100.00%	578.0	890.5	1014.5
Sulfur Dioxide	mg/m3	Continuous	100.00%	698.9	896.2	1061.6
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continuous				
Temperature	degrees Celsius	Continuous				

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Date of sample	Most recent result
Cadmium	mg/m3	Six monthly	2	22/09/2020	<0.0003
Chlorine	mg/m3	Six monthly	2	26/08/2021	0.0071
Fluorine	mg/m3	Six monthly	2	26/08/2021	7.9
Hydrogen chloride	mg/m3	Six monthly	2	26/08/2021	16
Mercury	mg/m3	Six monthly	2	26/08/2021	0.0021
Solid Particles	mg/m3	Quarterly	4	27/04/2022	3.7
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2	6/05/2021	3.8
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	4/03/2021	<0.016
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	26/08/2021	<0.08
Carbon dioxide	percent	Six monthly	2	26/08/2021	10.8

A less than sign, "<", before a result in the table above indicates that the measured result was less than the relevant Limit of Detection for that test. The Station's Environment Protection Licence requires that Solid Particles are sampled from the A and B ducts 4 times per year each (once in each quarter). Other substances listed in the table are sampled twice per year. The table includes the most recent results available.

Number of samples from the duct in the year to date

Discharge & Monitoring Point 19

Discharge to waters - Discharge quality monitoring, Volume monitoring

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

Pollutant	Unit of measure	Sampling / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	100.00%	725	2428	4081	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	2	<2	1	<2	10 mg/L
pH	pH Units	Continuous	100.00%	7.3	7.8	8.7	6.5 - 9.0
Volume discharge	Megalitres per month	Continuous during discharge	31		448.0		840 ML

Discharge & Monitoring Point 20

Discharge to waters - Discharge quality monitoring, Volume monitoring

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 / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Oil and Grease	mg/L	Fortnightly	4	<2	1	2	10 mg/L
Total suspended solids	mg/L	Fortnightly	4	<5	5	9	30 mg/L
Volume discharge	kilolitres per week	Continuous during discharge	4	0	16,038	20,423	36,400 kL

Discharge & Monitoring Point 21

Discharge to waters - Discharge quality monitoring, Volume monitoring

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 / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Boron	mg/L	Weekly during any discharge	5	2.03	2.52	3.22	
Cadmium	mg/L	Weekly during any discharge	5	0.0002	0.0003	0.0004	
Conductivity	uS/cm	Continuous during discharge	5	2250	2250	2250	-
Copper	mg/L	Weekly during any discharge	5	0.002	0.007	0.022	
Iron	mg/L	Weekly during any discharge	5	0.09	0.274	0.78	
Molybdenum	mg/L	Weekly during any discharge	5	0.102	0.385	0.613	
Nickel	mg/L	Weekly during any discharge	5	0.017	0.027	0.037	
pH	pH Units	Weekly during any discharge	5	6.0		7.4	
Silver	mg/L	Weekly during any discharge	5	<0.001	0.0005	<0.001	
Volume discharge	Kilolitres per day	Daily during any discharge	31	17496	17509	17626	

Discharge & Monitoring Point 22

Discharge to waters - Volume monitoring

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 / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Volume discharge	MKilolitres per day	Continuous during discharge	31	5997	45226	57525	

Discharge & 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 / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Conductivity	uS/cm	Continuous during discharge	100%	2460	2598	2680	-
pH	pH Units	Weekly during any discharge	19	8.3	8.3	8.5	6.5 - 8.5
Total suspended solids	mg/L	Monthly during discharge	1	<5	7	7	30 mg/L
Volume discharge	Megalitres per day	Continuous during discharge	26	37	301	628	700 ML

Discharge & Monitoring Point 24							
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							
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 / measurement frequency	Samples collected and analysed	Lowest sample value	Mean of samples	Highest sample value	100th percentile concentration limits
Boron	mg/L	Weekly duiring any discharge	0				0.81 mg/L
Cadmium	mg/L	Weekly duiring any discharge	0				0.0003 mg/L
Copper	mg/L	Weekly duiring any discharge	0				0.001 mg/L
Conductivity	uS/cm	Continuous during discharge	0				-
Iron	mg/L	Weekly duiring any discharge	0				0.27 mg/L
Molybdenum	mg/L	Weekly duiring any discharge	0				0.29 mg/L
Nickel	mg/L	Weekly duiring any discharge	0				0.019 mg/L
pH	pH Units	Weekly duiring any discharge	0				6.5 - 9.5
Silver	mg/L	Weekly duiring any discharge	0				0.0005 mg/L
Total suspended solids	mg/L	Monthly during discharge	0				30 mg/L
Volume discharge	Megalitres per day	Continuous during discharge	0				20 ML
Discharge did not occur							
Details of Non-Compliance with Licence Conditions							
Licence condition number not complied with							
L3.7							
E1.3							
M2.6							
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)							
Exceedance of the upper pH limit at EPL point 19 for less than 15 minutes							
Exceedance of discharge rate at EPL point 23							
Fault with conductivity meter							
If required, further details on particulars of non-compliance							
Date(s) when the non-compliance occurred, if applicable							
8-Jul-22							
17-Jul-22							
6 to 9 Jul-22							
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							
N/A							
Cause of non-compliance							
Return to service process for the Unit 3 boiler							
Site procedural issue							
Offtake pipeline for conductivity meter did not flow							
Action taken or that will be taken to mitigate any adverse effects of the non-compliance							
Cooling tower blowdown was adjusted							
Discharge rate was reduced once exceedance was identified							
No adverse effects as manual sampling was available							
Action taken or that will be taken to prevent a recurrence of the non-compliance							
Actions identified in the investigation once completed will be carried out							
Site procedure has been ammended to ensure issue cannot recur							
Solutions to prevent recurrence are being investigated							