

Monthly Data Summary

Environmental Protection Licence 779

AGL Macquarie - Bayswater Power Station



Monitoring Period

JUNE 2021

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%	262.7	553.5	702.4	1500 mg/m ³
Sulfur dioxide	mg/m ³	Continuous	100.0%	712.3	950.3	1111.7	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	22/09/2020	0.000100	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	22/09/2020	0.018000	20 mg/m ³
Fluorine	mg/m ³	Six monthly	22/09/2020	9.3	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	22/09/2020	16.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	22/09/2020	0.0015	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	4/05/2020	11.70	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	22/09/2020	2.40	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	22/09/2020	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	22/09/2020	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					1500 mg/m ³
Sulfur Dioxide	mg/m ³	Continuous					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	23/09/2020	0.000150	0.2 mg/m ³
Chlorine	mg/m ³	Six monthly	23/09/2020	0.140000	20 mg/m ³
Fluorine	mg/m ³	Six monthly	23/09/2020	4.7	20 mg/m ³
Hydrogen chloride	mg/m ³	Six monthly	23/09/2020	14.0	50 mg/m ³
Mercury	mg/m ³	Six monthly	23/09/2020	0.0014	0.05 mg/m ³
Solid Particles	mg/m ³	Quarterly	2/03/2021	8.30	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO ₃)	mg/m ³	Six monthly	23/09/2020	2.40	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m ³	Six monthly	23/09/2020	0.0078	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m ³	Six monthly	23/09/2020	0.18	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%	291.0	639.1	825.5	1500 mg/m ³
Sulfur Dioxide	mg/m3	Continuous	100.00%	644.7	937.1	1129.3	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	25/11/2020	0.000100	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	25/11/2020	0.040000	20 mg/m ³
Fluorine	mg/m3	Six monthly	25/11/2020	9.0	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	25/11/2020	15.0	50 mg/m ³
Mercury	mg/m3	Six monthly	25/11/2020	0.0027	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	5/05/2021	9.98	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	25/11/2020	4.00	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	25/11/2020	0.012	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	25/11/2020	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 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%	562.3	1008.3	1473.9	1500 mg/m ³
Sulfur Dioxide	mg/m3	Continuous	100.00%	814.6	1005.9	1169.1	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	22/09/2020	0.000150	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	22/09/2020	0.000000	20 mg/m ³
Fluorine	mg/m3	Six monthly	22/09/2020	9.9	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	22/09/2020	14.0	50 mg/m ³
Mercury	mg/m3	Six monthly	22/09/2020	0.0028	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	6/05/2021	9.39	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	22/09/2020	3.80	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	22/09/2020	0.009	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	22/09/2020	0.99	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%	262.7	553.5	702.4
Sulfur Dioxide	mg/m3	Continuous	100.00%	712.3	950.3	1111.7
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	23/10/2018	<0.0002
Chlorine	mg/m3	Six monthly	2	4/05/2021	0.018
Fluorine	mg/m3	Six monthly	2	4/05/2021	9.3
Hydrogen chloride	mg/m3	Six monthly	2	4/05/2021	16
Mercury	mg/m3	Six monthly	2	3/03/2021	0.0015
Solid Particles	mg/m3	Quarterly	4	3/03/2021	6.5
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	3/03/2021	<0.018
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	4/05/2021	<0.09
Carbon dioxide	percent	Six monthly	2	4/05/2021	11.1

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	3/03/2021	<0.0002
Mercury	mg/m3	Six monthly	2	3/03/2021	0.0016
Solid Particles	mg/m3	Quarterly	4	4/05/2021	17
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	3/03/2021	<0.018

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	2/03/2021	<0.0003
Mercury	mg/m3	Six monthly	2	2/03/2021	0.002
Solid Particles	mg/m3	Quarterly	4	2/03/2021	6.7
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/03/2021	<0.017

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				
Sulfur Dioxide	mg/m3	Continuous				
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	26/11/2020	0.14
Fluorine	mg/m3	Six monthly	2	26/11/2020	4.7
Hydrogen chloride	mg/m3	Six monthly	2	26/11/2020	14
Mercury	mg/m3	Six monthly	2	2/03/2021	0.00077
Solid Particles	mg/m3	Quarterly	4	3/03/2021	10
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	26/11/2020	0.18
Carbon dioxide	percent	Six monthly	2	2/03/2021	9.2

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%	291.0	639.1	825.5
Sulfur Dioxide	mg/m3	Continuous	100.00%	644.7	937.1	1129.3
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	5/05/2021	0.04
Fluorine	mg/m3	Six monthly	2	5/05/2021	9
Hydrogen chloride	mg/m3	Six monthly	2	5/05/2021	15
Mercury	mg/m3	Six monthly	2	5/03/2021	0.0023
Solid Particles	mg/m3	Quarterly	4	5/05/2021	7.3
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	5/03/2021	<0.032
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	5/05/2021	<0.1
Carbon dioxide	percent	Six monthly	2	5/05/2021	11.2

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	5/03/2021	0.0031
Solid Particles	mg/m3	Quarterly	4	25/11/2020	13
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	5/03/2021	<0.015

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. # 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	4/03/2021	<0.0003
Mercury	mg/m3	Six monthly	2	4/03/2021	0.0033
Solid Particles	mg/m3	Quarterly	4	6/05/2021	8.9
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	4/03/2021	<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 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%	562.3	1008.3	1473.9
Sulfur Dioxide	mg/m3	Continuous	100.00%	814.6	1005.9	1169.1
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	6/05/2021	0.036
Fluorine	mg/m3	Six monthly	2	6/05/2021	9.9
Hydrogen chloride	mg/m3	Six monthly	2	6/05/2021	14
Mercury	mg/m3	Six monthly	2	4/03/2021	0.0024
Solid Particles	mg/m3	Quarterly	4	6/05/2021	9.8
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		6/05/2021	0.99
Carbon dioxide	percent	Six monthly	2	6/05/2021	12

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	99.65%	237	3567	4272	4500 uS/cm
Oil and Grease	mg/L	Fortnightly	2	<2	1	<2	10 mg/L
pH	pH Units	Continuous	99.63%	7.0	8.0	8.6	6.5 - 9.0
Volume discharge	Megalitres per month	Continuous during discharge	4		466.5		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	2	3	10 mg/L
Total suspended solids	mg/L	Fortnightly	4	<5	4	8	30 mg/L
Volume discharge	kilolitres per week	Continuous during discharge	4	0	9,979	14,177	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	0				
Cadmium	mg/L	Weekly during any discharge	0				
Conductivity	uS/cm	Continuous during discharge	0				-
Copper	mg/L	Weekly during any discharge	0				
Iron	mg/L	Weekly during any discharge	0				
Molybdenum	mg/L	Weekly during any discharge	0				
Nickel	mg/L	Weekly during any discharge	0				
pH	pH Units	Weekly during any discharge	0				
Silver	mg/L	Weekly during any discharge	0				
Volume discharge	Megalitres per day	Daily during any discharge	0				

Discharge did not occur

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	kilolitres per day	Continuous during discharge	29	28873	52289	59216	

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	3	2690	2706.666667	2720	-
pH	pH Units	Weekly during any discharge	3	8.4	8.4	8.5	6.5 - 8.5
Total suspended solids	mg/L	Monthly during discharge	1	<5	2.5	<5	30 mg/L
Volume discharge	Megalitres per day	Continuous during discharge	3	70	88.1	116.4	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
L3.4
E1.3
Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)
Exceedance of NOx 99th percentile limit
Exceedance of the discharge rate at EPL point 23
If required, further details on particulars of non-compliance
Continuous emissions monitoring data indicates that the Unit 4 NOx emissions exceeded the 99th percentile limit for nitrogen oxides of 1100 mg/m3 on a number of occasions during June 2021.
The rate of discharge was exceeded briefly during the HRSTS block however river salinity levels did not exceed the downstream limit. There was no exceedance of the salt limit for the HRSTS block.
Date(s) when the non-compliance occurred, if applicable
Currently being confirmed.
14/06/2021
If relevant, precise location where the non-compliance occurred (attach a map or diagram)
Unit 4
EPL point 23
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
The cause of the exceedance is currently being confirmed.
Human error when an update in the River Register for the HRSTS block was read.
Action taken or that will be taken to mitigate any adverse effects of the non-compliance
No adverse effects resulted from the temporary exceedances of the 99th percentile limit for nitrogen oxides.
When the error was identified the discharge volume was reduced and a plan made to halt the discharge early to ensure it remained below the maximum salt limit. No river salinity limit was breached. There is no evidence of environmental harm
Action taken or that will be taken to prevent a recurrence of the non-compliance
Once the cause of the exceedance has been confirmed, any actions required to mitigate against reoccurrence will be identified.
Review of HRSTS discharge procedure