Monthly Data Summary

Environmental Protection Licence 2122

AGL Macquarie - Liddell Power Station

Monitoring Period

APRIL 2022



EPA Indentifcation Number 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/m3	Continuous	99.86%	447.0	637.3	853.8	1500 mg/m ³
Suflur Dioxide	mg/m3	Continuous	99.86%	658.9	889.6	1021.5	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	24/03/2022	0.0001	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	24/03/2022	0.007	20 mg/m ³
Fluorine	mg/m3	Six monthly	24/03/2022	10.0	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	24/03/2022	15.0	50 mg/m ³
Mercury	mg/m3	Six monthly	24/03/2022	0.0002	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	24/03/2022	20.3	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	31/08/2021	1.100	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	24/03/2022	0.013	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	24/03/2022	0.025	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.

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	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continouus	99.45%	201.9	319.9	447.9	1500 mg/m ³
Suflur Dioxide	mg/m3	Continuous	99.86%	471.1	672.3	869.0	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
Co-donium		Circum anathric	2/02/2022	0.0002	limits
Cadmium	mg/m3	Six monthly	3/02/2022		0.2 mg/m ³
Chlorine	mg/m3	Six monthly	3/02/2022	0.014	20 mg/m ³
Fluorine	mg/m3	Six monthly	3/02/2022	12.0	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	3/02/2022	16.0	50 mg/m ³
Mercury	mg/m3	Six monthly	3/02/2022	0.0023	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	3/02/2021	22.7	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	1/09/2021	1.800	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	3/02/2022	0.016	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	3/02/2022	0.170	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 Indentifcation 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	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits			
Nitrogen Oxides	mg/m3	Continouus	100.0%	340.8	365.0	386.6	1500 mg/m ³			
Suflur Dioxide	mg/m3	Continuous	100.0%	705.0	760.3	781.8	1700 mg/m ³			
Unit was retired from service h	Init was retired from service by 0000hrs 1-Anr. 2022									

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	2/02/2022	0.0001	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	2/02/2022	0.011	20 mg/m ³
Fluorine	mg/m3	Six monthly	2/02/2022	10.0	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	2/02/2022	14.0	50 mg/m ³
Mercury	mg/m3	Six monthly	2/02/2022	0.0008	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	2/02/2021	32.1	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	15/09/2021	2.000	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2/02/2022	0.020	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2/02/2022	0.190	10 mg/m ³

Unit was retired from service by 0900hrs 1-Apr-2022

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	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continouus	100.0%	299.1	559.8	642.3	1500 mg/m ³
Suflur Dioxide	mg/m3	Continuous	100.0%	722.7	915.9	1092.3	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	1/02/2022	0.0003	0.2 mg/m ³
Chlorine	mg/m3	Six monthly	1/02/2022	0.009	20 mg/m ³
Fluorine	mg/m3	Six monthly	1/02/2022	9.1	20 mg/m ³
Hydrogen chloride	mg/m3	Six monthly	1/02/2022	13.0	50 mg/m ³
Mercury	mg/m3	Six monthly	1/02/2022	0.0035	0.05 mg/m ³
Solid Particles	mg/m3	Quarterly	1/02/2021	14.1	50 mg/m ³
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	2/09/2021	1.100	100 mg/m ³
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	1/02/2022	0.015	0.75 mg/m ³
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	1/02/2022	0.860	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 Indentifcation 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	Continouus	99.9%	447.0	637.3	853.8
Suflur Dioxide	mg/m3	Continuous	99.9%	658.9	889.6	1021.5
Flow	cubic metres per second	Continuous				
Moisture	percent	Continuous				
Oxygen	percent	Continouus				
Temperature	degrees Celsius	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	11/03/2021	<0.0003
Chlorine	mg/m3	Six monthly	2	31/08/2021	0.049
Fluorine	mg/m3	Six monthly	2	31/08/2021	9.4
Hydrogen chloride	mg/m3	Six monthly	2	31/08/2021	14.0
Mercury	mg/m3	Six monthly	2	31/08/2021	0.0006
Solid Particles	mg/m3	Quarterly	3	19/10/2021	55.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	1	19/10/2021	1.100
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	31/08/2021	<0.02
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	31/08/2021	<0.1
Carbon dioxide	percent	Six monthly	2	19/10/2021	5.7

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

Air emission monitoring - Boiler number 1 exhaust - duct B

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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	Continouus				
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	22/10/2019	< 0.0002
Mercury	mg/m3	Six monthly	2	31/08/2021	0.0003
Solid Particles	mg/m3	Quarterly	3	19/10/2021	11.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	31/08/2021	<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 Indentifcation Number 9

Air emission monitoring - Boiler number 2 exhaust - duct A

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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	Continouus				
Moisture	percent	Continouus				
Oxygen	percent	Continouus				
Temperature	degrees Celsius	Continouus				

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	4/04/2019	<0.0002
Mercury	mg/m3	Six monthly	2	1/09/2021	0.0015
Solid Particles	mg/m3	Quarterly	3	5/11/2021	53.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	1/09/2021	<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

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	Continouus	99.4%	201.9	319.9	447.9
Suflur Dioxide	mg/m3	Continuous	99.9%	471.1	779.3	869.0
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	10/03/2020	< 0.0002
Chlorine	mg/m3	Six monthly	2	1/09/2021	0.009
Fluorine	mg/m3	Six monthly	2	1/09/2021	9.7
Hydrogen chloride	mg/m3	Six monthly	2	1/09/2021	13.0
Mercury	mg/m3	Six monthly	2	1/09/2021	0.0004
Solid Particles	mg/m3	Quarterly	3	5/11/2021	18.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	1	2/06/2021	2.300
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	1/09/2021	<0.019
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	1/09/2021	<0.09
Carbon dioxide	percent	Six monthly	2	1/09/2021	10.5

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 Indentifcation 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	Continouus	100.0%	340.8	365.0	386.6
Suflur Dioxide	mg/m3	Continuous	100.0%	705.0	760.3	781.8
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	15/09/2021	< 0.0002
Chlorine	mg/m3	Six monthly	2	15/09/2021	0.016
Fluorine	mg/m3	Six monthly	2	3/06/2021	11.0
Hydrogen chloride	mg/m3	Six monthly	2	15/09/2021	16.0
Mercury	mg/m3	Six monthly	2	15/09/2021	0.0015
Solid Particles	mg/m3	Quarterly	3	20/10/2021	14.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	1	3/06/2021	2.200
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	15/09/2021	<0.026
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	3/06/2021	<0.09
Carbon dioxide	percent	Six monthly	2	15/09/2021	9.6

Unit was retired from service by 0900hrs 1-Apr-2022

Air emission monitoring - Boiler number 3 exhaust - duct B

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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	16/09/2021	<0.0003
Mercury	mg/m3	Six monthly	2	16/09/2021	0.0022
Solid Particles	mg/m3	Quarterly	3	20/10/2021	17.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	16/09/2021	<0.031

Unit was retired from service by 0900hrs 1-Apr-2022

EPA Indentifcation Number 13

Air emission monitoring - Roiler number 4 exhaust - duct A

Air emission monitoring - Bo	+ CAHOO	· · · · · · · · · · · · · · · · · · ·				
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	Continouus				
Moisture	percent	Continouus				
Oxygen	percent	Continouus				
Temperature	degrees Celsius	Continouus				

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	24/09/2019	<0.0002
Mercury	mg/m3	Six monthly	2	2/09/2021	0.0026
Solid Particles	mg/m3	Quarterly	3	21/10/2021	9.2
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/09/2021	<0.038

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

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	Continouus	100.0%	299.1	559.8	642.3
Suflur Dioxide	mg/m3	Continuous	100.0%	722.7	915.9	1092.3
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	9/03/2021	< 0.0003
Chlorine	mg/m3	Six monthly	2	2/09/2021	0.012
Fluorine	mg/m3	Six monthly	2	11/10/2018	11.0
Hydrogen chloride	mg/m3	Six monthly	2	2/09/2021	15.0
Mercury	mg/m3	Six monthly	2	2/09/2021	0.0013
Solid Particles	mg/m3	Quarterly	3	9/03/2021	11.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	1	1/06/2021	3.200
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	2/09/2021	<0.032
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	2	2/09/2021	<0.09
Carbon dioxide	percent	Six monthly	2	9/03/2021	11.0

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 Indentifcation Number 16

Discharge to waters - Discharge quality monitoring
Discharge of cooling water from the cooling water outlet canal to Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	mg/L	Fortnightly	2	0.02	0.07	0.12
Antimony	mg/L	Fortnightly	2	0.008	0.009	0.01
Arsenic	mg/L	Fortnightly	2	0.008	0.009	0.009
Barium	mg/L	Fortnightly	2	0.1	0.102	0.103
Beryllium	mg/L	Fortnightly	2	<0.001	0.001	< 0.001
Boron	mg/L	Fortnightly	2	1.33	1.44	1.55
Cadmium	mg/L	Fortnightly	2	<0.0001	0.0001	< 0.0001
Chlorine	mg/L	Fortnightly	2	0.02	0.04	0.05
Chromium (trivalent)	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Chromium (VI) compounds	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Cobalt	mg/L	Fortnightly	2	<0.001	0.001	< 0.001
Conductivity	μS/cm	Fortnightly	2	2690	2695	2700
Copper	mg/L	Fortnightly	2	0.004	0.004	0.004
Fluoride	mg/L	Fortnightly	2	1.3	1.52	1.73
Lead	mg/L	Fortnightly	2	< 0.001	0.001	< 0.001
Manganese	mg/L	Fortnightly	2	0.01	0.01	0.013
Mercury	mg/L	Fortnightly	2	<0.0001	0.0001	<0.0001
Methyl Blue Active Substances	mg/L	Fortnightly	2	<0.1	0.13	0.2
Molybdenum	mg/L	Fortnightly	2	0.114	0.12	0.122
Nickel	mg/L	Fortnightly	2	0.004	0.00	0.004
Nitrogen	mg/L	Fortnightly	2	0.6	0.70	0.8
Oil and Grease	mg/L	Weeklyduring any discarge	4	<2	1	<2
рН		Daily during any discarge	30	7.8	8.1	8.3
Phosporus	mg/L	Fortnightly	2	0.03	0.04	0.04
Selenium	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Sulfur	mg/L	Fortnightly	2	580	620	660
Temperature	°C	Fortnightly	2	29.5	29.8	30.1
Tin	mg/L	Fortnightly	2	<0.001	0.00	< 0.001
Total dissolved solids	mg/L	Fortnightly	2	1620	1800	1980
Total organic carbon	mg/L	Fortnightly	2	8	8.00	8
Total suspended solids	mg/L	Fortnightly	2	6	6.00	6
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
	mg/L	Fortnightly	2	<0.005	0.003	<0.005

Discharge to waters - Discharge quality monitoring
Discharge from oil and grit trap weir overflow to Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Ammonia	mg/L	Fortnightly	2	0.04	0.09	0.14
Antimony	mg/L	Fortnightly	2	0.008	0.008	0.008
Arsenic	mg/L	Fortnightly	2	0.007	0.008	0.008
Barium	mg/L	Fortnightly	2	0.092	0.095	0.097
Beryllium	mg/L	Fortnightly	2	< 0.001	0.001	<0.001
Boron	mg/L	Fortnightly	2	1.35	1.48	1.61
Cadmium	mg/L	Fortnightly	2	< 0.0001	0.0001	< 0.0001
Chlorine	mg/L	Fortnightly	2	0.04	0.04	0.04
Chromium (trivalent)	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Chromium (VI) compounds	mg/L	Fortnightly	2	< 0.01	0.01	< 0.01
Cobalt	mg/L	Fortnightly	2	<0.001	0.001	< 0.001
Conductivity	μS/cm	Fortnightly	2	2370	2430	2490
Copper	mg/L	Fortnightly	2	0.006	0.007	0.007
Fluoride	mg/L	Fortnightly	2	1.62	1.15	1.62
Lead	mg/L	Fortnightly	2	< 0.001	0.00	< 0.001
Manganese	mg/L	Fortnightly	2	0.012	0.01	0.014
Mercury	mg/L	Fortnightly	2	<0.0001	0.00	< 0.0001
Methyl Blue Active Substances	mg/L	Fortnightly	2	<0.1	0.05	<0.1
Molybdenum	mg/L	Fortnightly	2	0.104	0.11	0.113
Nickel	mg/L	Fortnightly	2	0.004	0.00	0.005
Nitrogen	mg/L	Fortnightly	2	0.6	0.70	0.8
Oil and Grease	mg/L	Weeklyduring any discarge	4	<2	1	<2
рН		Daily during any discarge	30	8.2	8.3	8.3
Phosporus	mg/L	Fortnightly	2	0.04	0.05	0.06
Selenium	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Sulfur	mg/L	Fortnightly	2	620	625	630
Temperature	°C	Fortnightly	2	25	25.05	25.1
Tin	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Total dissolved solids	mg/L	Fortnightly	2	1500	1665	1830
Total organic carbon	mg/L	Fortnightly	2	7	7.50	8
Total suspended solids	mg/L	Fortnightly	2	7	7.50	8
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
Zinc	mg/L	Fortnightly	2	<0.005	0.005	0.008

EPA Indentifcation Number 18

Discharge to waters - Discharge quality monitoring and Volume monitoring Discharge fromskimmer dam overflow spillwayto Lake Liddell

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Arsenic	mg/L	Weekly during any discharge	4	0.032	0.038	0.047
Boron	mg/L	Weekly during any discharge	4	1.28	1.68	1.98
Cadmium	mg/L	Weekly during any discharge	4	<0.0001	0.00006	0.0001
Chromium (trivalent)	mg/L	Weekly during any discharge	4	<0.01	0.005	<0.01
Chromium (VI) compounds	mg/L	Weekly during any discharge	4	<0.01	0.005	<0.01
Copper	mg/L	Weekly during any discharge	4	<0.001	0.002	0.005
Electrical conductivity	μS/cm	Weekly during any discharge	4	2670	2713	2780
Fluoride	mg/L	Weekly during any discharge	4	2.2	2.4	2.6
Lead	mg/L	Weekly during any discharge	4	<0.001	0.000625	0.001
Mercury	mg/L	Weekly during any discharge	4	<0.0001	0.00005	<0.0001
Oil and Grease	mg/L	Weekly during any discharge	4	<2	1	<2
рН		Weekly during any discharge	4	8.1	8.2	8.3
Selenium	mg/L	Weekly during any discharge	4	0.03	0.03	0.04
Total suspended solids	mg/L	Weekly during any discharge	4	<5	7	9
Zinc	mg/L	Weekly during any discharge	4	<0.005	0.003	<0.005
Volume	kilolitres per day	Daily	30	120000	167367	219000

Discharge utilisation area - Volume monitoring

Discharge of effluent from the final pond of the sewage treatment system adjacent to utilisation area.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Volume	kilolitres per day	Daily	30	0.27	35.35	109.35

Details of Non-Compliance with Licence Conditions	
Licence condition number not complied with	
N/A	
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	
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	
Cause of non-compliance	
Action taken or that will be taken to mitigate any adverse effects of the non-compliance	
Action taken or that will be taken to prevent a recurrence of the non-compliance	