Monthly Data Summary

Environmental Protection Licence 2122

AGL Macquarie - Liddell Power Station

Monitoring Period **JANUARY 2021**

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	100.00%	264.7	647.1	852.7	1500 mg/m^3
Suflur Dioxide	mg/m3	Continuous	100.00%	659.8	1012.6	1253.0	1700 mg/m^3

In addtion 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	11/03/2021	0.00012	0.2 mg/m^3
Chlorine	mg/m3	Six monthly	31/08/2020	0.13	20 mg/m^3
Fluorine	mg/m3	Six monthly	31/08/2020	12	20 mg/m^3
Hydrogen chloride	mg/m3	Six monthly	31/08/2020	19	50 mg/m^3
Mercury	mg/m3	Six monthly	11/03/2021	0.0001	0.05 mg/m^3
Solid Particles	mg/m3	Quarterly	11/03/2021	65.1	50 mg/m^3
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	31/08/2020	1.2	100 mg/m^3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	11/03/2021	0.009	0.75 mg/m^3
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	31/08/2020	0.16	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 Detetction, 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 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	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continouus	99.39%	234.2	438.8	563.2	1500 mg/m^3
Suflur Dioxide	mg/m3	Continuous	99.80%	634.4	819.0	1056.6	1700 mg/m^3

In addtion 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	10/03/2021	0.00010	0.2 mg/m^3
Chlorine	mg/m3	Six monthly	10/03/2021	0.012	20 mg/m^3
Fluorine	mg/m3	Six monthly	10/03/2021	9.3	20 mg/m^3
Hydrogen chloride	mg/m3	Six monthly	10/03/2021	14	50 mg/m^3
Mercury	mg/m3	Six monthly	10/03/2021	0.0009	0.05 mg/m^3
Solid Particles	mg/m3	Quarterly	10/03/2021	85.9	50 mg/m^3
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	10/03/2021	2.3	100 mg/m^3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	10/03/2021	0.012	0.75 mg/m^3
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	10/03/2021	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 Detetction, 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					1500 mg/m^3
Suflur Dioxide	mg/m3	Continuous					1700 mg/m^3

In addtion 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 . **NOTE: Unit was out of service January 2021**

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	15/09/2020	0.00012	0.2 mg/m^3
Chlorine	mg/m3	Six monthly	3/06/2021	0.005	20 mg/m^3
Fluorine	mg/m3	Six monthly	3/06/2021	11	20 mg/m^3
Hydrogen chloride	mg/m3	Six monthly	3/06/2021	14	50 mg/m^3
Mercury	mg/m3	Six monthly	15/09/2020	0.0002	0.05 mg/m^3
Solid Particles	mg/m3	Quarterly	#N/A		50 mg/m^3
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	3/06/2021	2.2	100 mg/m^3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	15/09/2020	0.008	0.75 mg/m^3
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	3/06/2021	0.045	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 Detetction, 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 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	Dat a capture %	Lowest sample value	Mean of sample	Highest sample value	100th percentile concentration limits
Nitrogen Oxides	mg/m3	Continouus	100.0%	328.4	589.8	806.9	1500 mg/m^3
Suflur Dioxide	mg/m3	Continuous	100.0%	736.1	949.1	1090.6	1700 mg/m^3

In addtion 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	9/03/2021	0.00015	0.2 mg/m^3
Chlorine	mg/m3	Six monthly	9/03/2021	0.082142857	20 mg/m^3
Fluorine	mg/m3	Six monthly	9/03/2021	8.3	20 mg/m^3
Hydrogen chloride	mg/m3	Six monthly	9/03/2021	12.0	50 mg/m^3
Mercury	mg/m3	Six monthly	9/03/2021	0.0002	0.05 mg/m^3
Solid Particles	mg/m3	Quarterly	9/03/2021	29.9	50 mg/m^3
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly	9/03/2021	3.2	100 mg/m^3
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	9/03/2021	0.015	0.75 mg/m^3
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly	9/03/2021	0.20	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 Detetction, 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	100.0%	264.7	647.1	852.7
Suflur Dioxide	mg/m3	Continuous	100.0%	659.8	1012.6	1253.0
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	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			17/11/2020	0.13000
Fluorine	mg/m3			9/10/2018	12.00000
Hydrogen chloride	mg/m3			17/11/2020	19.00000
Mercury	mg/m3	Six monthly	2	11/03/2021	<0.0004
Solid Particles	mg/m3	Quarterly	3	11/03/2021	120.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3			17/11/2020	1.20000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	11/03/2021	<0.021
Volatile organic compounds as n-propane equivalent	mg/m3			17/11/2020	0.16000
Carbon dioxide	percent	Six monthly	2	11/03/2021	7.7

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 Indentifcation 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					
Moisture	percent					
Oxygen	percent					
Temperature	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	22/10/2019	<0.0002
Mercury	mg/m3	Six monthly	2	11/03/2021	<0.0002
Solid Particles	mg/m3	Quarterly	3	11/03/2021	15.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	11/03/2021	<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 Indentifcation 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					
Moisture	percent					
Oxygen	percent					
Temperature	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	4/04/2019	<0.0002
Mercury	mg/m3	Six monthly	2	10/03/2021	0.00180
Solid Particles	mg/m3	Quarterly	3	2/06/2021	46.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	10/03/2021	<0.028

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 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	Continouus	99.4%	234.2	438.8	563.2
Suflur Dioxide	mg/m3	Continuous	99.8%	634.4	819.0	1056.6
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	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	10/03/2020	<0.0002
Chlorine	mg/m3	Six monthly		2/06/2021	0.01200
Fluorine	mg/m3	Six monthly		2/06/2021	9.30000
Hydrogen chloride	mg/m3	Six monthly		2/06/2021	14.00000
Mercury	mg/m3	Six monthly	2	10/03/2020	<0.0002
Solid Particles	mg/m3	Quarterly	3	2/06/2021	34.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly		2/06/2021	2.30000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	10/03/2021	<0.021
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly		2/06/2021	<0.1
Carbon dioxide	percent	Six monthly	2	2/06/2021	9.5

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		0.0		0.0
Suflur Dioxide	mg/m3	Continuous		0.0		0.0
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	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	1	15/09/2020	<0.0003
Chlorine	mg/m3	Six monthly		3/06/2021	<0.01
Fluorine	mg/m3	Six monthly		3/06/2021	11.00000
Hydrogen chloride	mg/m3	Six monthly		3/06/2021	14.00000
Mercury	mg/m3	Six monthly	1	15/09/2020	<0.0003
Solid Particles	mg/m3	Quarterly	2	3/06/2021	28.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly		3/06/2021	2.20000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	1	15/09/2020	<0.02
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly		3/06/2021	<0.09
Carbon dioxide	percent	Six monthly	1	3/06/2021	10.4

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 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					
Moisture	percent					
Oxygen	percent					
Temperature	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	1	26/03/2019	<0.0002
Mercury	mg/m3	Six monthly	1	15/09/2020	<0.0003
Solid Particles	mg/m3	Quarterly	2	3/06/2021	42.0
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	1	15/09/2020	<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 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					
Moisture	percent					
Oxygen	percent					
Temperature	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	#N/A	<0.0003
Mercury	mg/m3	Six monthly	2	9/03/2021	<0.0003
Solid Particles	mg/m3	Quarterly	4	1/06/2021	9.9
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	9/03/2021	<0.023

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 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	Continouus	100.0%	328.4	589.8	806.9
Suflur Dioxide	mg/m3	Continuous	100.0%	736.1	949.1	1090.6
Flow	cubic metres per second					
Moisture	percent					
Oxygen	percent					
Temperature	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	9/03/2021	<0.0003
Chlorine	mg/m3	Six monthly		1/06/2021	0.03900
Fluorine	mg/m3	Six monthly		1/06/2021	8.30000
Hydrogen chloride	mg/m3	Six monthly		1/06/2021	12.00000
Mercury	mg/m3	Six monthly	2	9/03/2021	<0.0003
Solid Particles	mg/m3	Quarterly	4	1/06/2021	5.0
Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	Six monthly		1/06/2021	3.20000
Type 1 and Type 2 substances in aggregate	mg/m3	Six monthly	2	9/03/2021	<0.037
Volatile organic compounds as n-propane equivalent	mg/m3	Six monthly		1/06/2021	0.20000
Carbon dioxide	percent	Six monthly	2	1/06/2021	108.0

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	0.03	0.03
Antimony	mg/L	Fortnightly	2	0.008	0.01	0.009
Arsenic	mg/L	Fortnightly	2	0.006	0.01	0.007
Barium	mg/L	Fortnightly	2	0.095	0.10	0.096
Beryllium	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Boron	mg/L	Fortnightly	2	0.99	1.08	1.16
Cadmium	mg/L	Fortnightly	2	<0.0001	0.00	<0.0001
Chlorine	mg/L	Fortnightly	2	0.03	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	0.00	<0.001
Conductivity	microsiemans per centimetre	Fortnightly	2	2820	2880	2940
Copper	mg/L	Fortnightly	2	0.003	0.00	0.003
Fluoride	mg/L	Fortnightly	2	1.06	1.42	1.77
Lead	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Manganese	mg/L	Fortnightly	2	0.009	0.01	0.019
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	0.109	0.11	0.11
Nickel	mg/L	Fortnightly	2	0.004	0.00	0.005
Nitrogen	mg/L	Fortnightly	2	0.3	0.35	0.4
Oil and Grease	mg/L	Weeklyduring any discarge	4	<5	2.5	<5
pH	mg/L	Daily during any discarge	31	8.3	8.4	8.6
Phosporus	mg/L	Fortnightly	2	0.01	0.02	0.02
Selenium	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Sulfur	mg/L	Fortnightly	2	670	740.00	810
Temperature	degrees Celsius	Fortnightly	2	28.2	29.35	30.5
Tin	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Total dissolved solids	mg/L	Fortnightly	2	1910	1955.00	2000
Total organic carbon	mg/L	Fortnightly	2	6	6.50	7
Total suspended solids	mg/L	Fortnightly	2	3	3.00	3
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
Zinc	mg/L	Fortnightly	2	<0.005	0.00	<0.005

EPA Indentifcation Number 17
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	0.03	0.04	0.05
Antimony	mg/L	Fortnightly	2	0.007	0.01	0.01
Arsenic	mg/L	Fortnightly	2	0.005	0.01	0.006
Barium	mg/L	Fortnightly	2	0.089	0.09	0.09
Beryllium	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Boron	mg/L	Fortnightly	2	0.92	1.02	1.12
Cadmium	mg/L	Fortnightly	2	<0.0001	0.00	0.0001
Chlorine	mg/L	Fortnightly	2	0.05	0.06	0.06
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	0.00	<0.001
Conductivity	microsiemans per centimetre	Fortnightly	2	2720	2740	2760
Copper	mg/L	Fortnightly	2	0.005	0.01	0.006
Fluoride	mg/L	Fortnightly	2	1.07	1.38	1.69
Lead	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Manganese	mg/L	Fortnightly	2	0.011	0.02	0.022
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	0.1	0.10	0.107
Nickel	mg/L	Fortnightly	2	0.004	0.00	0.005
Nitrogen	mg/L	Fortnightly	2	0.3	0.35	0.4
Oil and Grease	mg/L	Weeklyduring any discarge	4	<5	2.5	<5
pH	mg/L	Daily during any discarge	31	8.3	8.4	8.5
Phosporus	mg/L	Fortnightly	2	0.01	0.02	0.02
Selenium	mg/L	Fortnightly	2	<0.01	0.01	<0.01
Sulfur	mg/L	Fortnightly	2	670	695.00	720
Temperature	degrees Celsius	Fortnightly	2	26.3	26.3	26.3
Tin	mg/L	Fortnightly	2	<0.001	0.00	<0.001
Total dissolved solids	mg/L	Fortnightly	2	1220	1580.00	1940
Total organic carbon	mg/L	Fortnightly	2	8	9.50	11
Total suspended solids	mg/L	Fortnightly	2	3	4.00	5
Vanadium	mg/L	Fortnightly	2	0.01	0.01	0.01
Zinc	mg/L	Fortnightly	2	<0.005	0.00	<0.005

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	0.022	0.03225	0.048
Boron	mg/L	Weekly during any discharge	4	1.53	1.55	1.6
Cadmium	mg/L	Weekly during any discharge	4	<0.0001	0.0000625	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	0.00175	0.004
Electrical conductivity	microsiemans per centimetre	Weekly during any discharge	4	2860	2965	3120
Fluoride	mg/L	Weekly during any discharge	4	2.1	2.325	2.5
Lead	mg/L	Weekly during any discharge	4	<0.001	0.0005	<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	<5	2.5	<5
pH		Weekly during any discharge	4	8.1	8.2	8.3
Selenium	mg/L	Weekly during any discharge	4	0.02	0.0275	0.04
Total suspended solids	mg/L	Weekly during any discharge	4	3	4.25	6
Zinc	mg/L	Weekly during any discharge	4	<0.005	0.003	<0.005
Volume	kilolitres per day	Daily	6	66000	211667	706000
Note: Volume readings prior to 26 Jan are unreliable due to an instrument fault caused by environmental conditions						

EPA Indentifcation Number 19
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	**31**	**0.38**	**31.91**	**182.59**

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