

Monthly Data Summary

LIDDELL MONTHLY DATA SUMMARY MARCH 2019

| | |
|------------------|---------------|
| LICENCE NO | 2122 |
| LICENCE HOLDER | AGL MACQUARIE |
| REPORTING PERIOD | MARCH 2019 |

A1 Licence Holder

Licence Number 2122
Licence Holder AGL MACQUARIE
Trading Name (if applicable)
ABN 18 167 859 494

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) LIDDELL POWER STATION
Premises NEW ENGLAND HIGHWAY MUSWELLBROOK NSW 2333

A3 Activities to which Licence Applies

Electricity Generating Works
Coal Works

A4 Other Activities (if applicable)

Helicopter-related facilities
Chemical storage
Operation of Emergency 1.5 MW diesel generator
Operation of Gas turbine
Sewage treatment
Waste storage

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

| Fee-based activity | Activity scale | Unit of measure |
|--|----------------|-----------------|
| Coal works | > 5,000,000.00 | T handled |
| Generation of electrical power from coal | > 4,000.00 | Gwh generated |

Monthly Data Summary

Discharge & Monitoring Point 7

301204 East 6416350 North

Discharge to Air

In the flue gases of unit 1 boiler labelled as "Unit 1 Boiler 1-2 Chimney Stack" on plan no. LD 800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Averaging period | Data capture % | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| MARCH 2019 | 10/04/2019 | Nitrogen Oxides | milligrams per cubic metre | Continuous | One hour | >99% | 391.6 | 608.6 | 745.1 | 1500 mg/m ³ |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 190.8 | 296.5 | 363.0 | 700 ppm |
| MARCH 2019 | 10/04/2019 | Sulphur dioxide | milligrams per cubic metre | Continuous | One hour | >99% | 756.0 | 907.1 | 1162.9 | |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 264.5 | 317.4 | 406.9 | 600 ppm |
| MARCH 2019 | 10/04/2019 | Opacity - Undifferentiated particles | Percent | Continuous | One hour | >99% | 1.0 | 3.3 | 5.3 | 20% |

Comments:

Annual monitoring of discharges to air

Air emission monitoring, Boiler 1 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | No. of samples required by licence | Samples collected and analysed | Sample value | EPL Limit mg/m ³ |
|--------|---------------------|--|----------------------------|------------------------------------|--------------------------------|--------------|-----------------------------|
| Oct-18 | 8/11/2018 | Cadmium | milligrams per cubic metre | 1 | 1 | <0.0001 | 1.0 |
| Oct-18 | 8/11/2018 | Chlorine | milligrams per cubic metre | 1 | 1 | 0.0 | 200 |
| Oct-18 | 8/11/2018 | Copper | milligrams per cubic metre | 1 | 1 | 0.0017 | |
| Oct-18 | 8/11/2018 | Hazardous substances (Metals) | milligrams per cubic metre | 1 | 1 | ≤0.058 | 5 |
| Oct-18 | 8/11/2018 | Hydrogen chloride | milligrams per cubic metre | 1 | 1 | 26.0 | 100 |
| Oct-18 | 8/11/2018 | Mercury | milligrams per cubic metre | 1 | 1 | 0.00330 | 1.0 |
| Oct-18 | 8/11/2018 | Nitrogen oxides | milligrams per cubic metre | 1 | 1 | 810 | 1500 |
| Oct-18 | 8/11/2018 | Solid particles | milligrams per cubic metre | 1 | 1 | 5.5 | 100 |
| Oct-18 | 8/11/2018 | Sulfuric acid mist and sulfur trioxide | milligrams per cubic metre | 1 | 1 | 2.000 | 100 |
| Oct-18 | 8/11/2018 | Sulphur dioxide | milligrams per cubic metre | 1 | 1 | 1200 | |
| Oct-18 | 8/11/2018 | Total fluoride | milligrams per cubic metre | 1 | 1 | 12.0 | 50 |
| Oct-18 | 8/11/2018 | Volatile organic compounds | milligrams per cubic metre | 1 | 1 | <0.03 | |

Comments:

Monitoring of emission from each of the 4 boilers for the substances in this table is required annually.

Monthly Data Summary

Discharge & Monitoring Point 8

301204 East 6416350 North

In the flue gases of unit 2 boiler labelled as "Unit 2 Boiler 1-2 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Averaging period | Data capture % | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| MARCH 2019 | 10/04/2019 | Nitrogen Oxides | milligrams per cubic metre | Continuous | One hour | >99% | 409 | 552 | 745 | 1500 mg/m ³ |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 199 | 269 | 363 | 700 ppm |
| MARCH 2019 | 10/04/2019 | Sulphur dioxide | milligrams per cubic metre | Continuous | One hour | >99% | 637 | 868 | 1107 | |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 223 | 304 | 387 | 600 ppm |
| MARCH 2019 | 10/04/2019 | Opacity - Undifferentiated particles | Percent | Continuous | One hour | >99% | 6.2 | 7.4 | 13.0 | 20% |
| Comments: | | | | | | | | | | |

Annual monitoring of discharges to air

Air emission monitoring, Boiler 2 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | No. of samples required by licence | Samples collected and analysed | Sample value | EPL Limit mg/m ³ |
|--|---------------------|--|----------------------------|------------------------------------|--------------------------------|--------------|-----------------------------|
| Mar-18 | 12/04/2018 | Cadmium | milligrams per cubic metre | 1 | 1 | <0.0002 | 1.0 |
| Mar-18 | 12/04/2018 | Chlorine | milligrams per cubic metre | 1 | 1 | <0.007 | 200 |
| Mar-18 | 12/04/2018 | Copper | milligrams per cubic metre | 1 | 1 | 0.0040 | |
| Mar-18 | 12/04/2018 | Hazardous substances (Metals) | milligrams per cubic metre | 1 | 1 | ≤0.019 | 5 |
| Mar-18 | 12/04/2018 | Hydrogen chloride | milligrams per cubic metre | 1 | 1 | 8.7 | 100 |
| Mar-18 | 12/04/2018 | Mercury | milligrams per cubic metre | 1 | 1 | <0.00080 | 1.0 |
| Mar-18 | 12/04/2018 | Nitrogen oxides | milligrams per cubic metre | 1 | 1 | 550 | 1500 |
| Mar-18 | 12/04/2018 | Solid particles | milligrams per cubic metre | 1 | 1 | 37.0 | 100 |
| Mar-18 | 12/04/2018 | Sulfuric acid mist and sulfur trioxide | milligrams per cubic metre | 1 | 1 | 0.880 | 100 |
| Mar-18 | 12/04/2018 | Sulphur dioxide | milligrams per cubic metre | 1 | 1 | 900 | |
| Mar-18 | 12/04/2018 | Total fluoride | milligrams per cubic metre | 1 | 1 | 8.2 | 50 |
| Mar-18 | 12/04/2018 | Volatile organic compounds | milligrams per cubic metre | 1 | 1 | 0.940 | |
| Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. | | | | | | | |

Monthly Data Summary

Discharge & Monitoring Point 9

301204 East 6416350 North

In the flue gases of unit 3 boiler labelled as "Unit 3 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Averaging period | Data capture % | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| MARCH 2019 | 10/04/2019 | Nitrogen Oxides | milligrams per cubic metre | Continuous | One hour | >99% | 326.1 | 627.6 | 815.6 | 1500 mg/m ³ |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 158.9 | | | 305.8 |
| MARCH 2019 | 10/04/2019 | Sulphur dioxide | milligrams per cubic metre | Continuous | One hour | >99% | 786.8 | 1028.5 | 1289.5 | |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 275.3 | | | 359.9 |
| MARCH 2019 | 10/04/2019 | Opacity - Undifferentiated particles | Percent | Continuous | One hour | >99% | 2.3 | 5.6 | 11.9 | 20% |
| Comments: | | | | | | | | | | |

Annual monitoring of discharges to air

Air emission monitoring, Boiler 3 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | No. of samples required by licence | Samples collected and analysed | Sample value | EPL Limit mg/m ³ |
|--|---------------------|--|----------------------------|------------------------------------|--------------------------------|--------------|-----------------------------|
| Oct-17 | 1/12/2017 | Cadmium | milligrams per cubic metre | 1 | 1 | <0.0001 | 1.0 |
| Oct-17 | 1/12/2017 | Chlorine | milligrams per cubic metre | 1 | 1 | 0.0 | 200 |
| Oct-17 | 1/12/2017 | Copper | milligrams per cubic metre | 1 | 1 | 0.0037 | |
| Oct-17 | 1/12/2017 | Hazardous substances (Metals) | milligrams per cubic metre | 1 | 1 | ≤0.02 | 5 |
| Oct-17 | 1/12/2017 | Hydrogen chloride | milligrams per cubic metre | 1 | 1 | 20.0 | 100 |
| Oct-17 | 1/12/2017 | Mercury | milligrams per cubic metre | 1 | 1 | 0.00051 | 1.0 |
| Oct-17 | 1/12/2017 | Nitrogen oxides | milligrams per cubic metre | 1 | 1 | 770 | 1500 |
| Oct-17 | 1/12/2017 | Solid particles | milligrams per cubic metre | 1 | 1 | 42.0 | 100 |
| Oct-17 | 1/12/2017 | Sulfuric acid mist and sulfur trioxide | milligrams per cubic metre | 1 | 1 | 1.700 | 100 |
| Oct-17 | 1/12/2017 | Sulphur dioxide | milligrams per cubic metre | 1 | 1 | 1300 | |
| Oct-17 | 1/12/2017 | Total fluoride | milligrams per cubic metre | 1 | 1 | 9.8 | 50 |
| Oct-17 | 1/12/2017 | Volatile organic compounds | milligrams per cubic metre | 1 | 1 | <0.02 | |
| Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. | | | | | | | |

Monthly Data Summary

Discharge & Monitoring Point 10

301204 East 6416350 North

In the flue gases of unit 4 boiler labelled as "Unit 4 Boiler 3-4 Chimney Stack" on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Averaging period | Data capture % | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------------|---------------------|--------------------------------------|----------------------------|----------------------------------|------------------|----------------|---------------------|-----------------|----------------------|------------------------|
| MARCH 2019 | 10/04/2019 | Nitrogen Oxides | milligrams per cubic metre | Continuous | One hour | >99% | 319.7 | 537.4 | 624.9 | 1500 mg/m ³ |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 155.7 | 261.8 | 304.5 | 700 ppm |
| MARCH 2019 | 10/04/2019 | Sulphur dioxide | milligrams per cubic metre | Continuous | One hour | >99% | 680.7 | 782.6 | 910.3 | |
| MARCH 2019 | 10/04/2019 | | parts per million | | | | 238.2 | 273.8 | 318.5 | 600 ppm |
| MARCH 2019 | 10/04/2019 | Opacity - Undifferentiated particles | Percent | Continuous | One hour | >99% | 5.9 | 7.8 | 10.8 | 20% |
| Comments: | | | | | | | | | | |

Annual monitoring of discharges to air

Air emission monitoring, Boiler 4 stack emissions, shown on plan no LD800474 amended 03 and dated 6/5/2003

| Month | Date of Publication | Pollutant | Unit of measure | No. of samples required by licence | Samples collected and analysed | Sample value | EPL Limit mg/m ³ | | | |
|---|---------------------|--|----------------------------|------------------------------------|--------------------------------|--------------|-----------------------------|--|--|--|
| Oct-18 | 29/11/2018 | Cadmium | milligrams per cubic metre | 1 | 1 | <0.0001 | 1.0 | | | |
| Oct-18 | 29/11/2018 | Chlorine | milligrams per cubic metre | 1 | 1 | 0.0 | 200 | | | |
| Oct-18 | 29/11/2018 | Copper | milligrams per cubic metre | 1 | 1 | 0.0007 | | | | |
| Oct-18 | 29/11/2018 | Hazardous substances (Metals) | milligrams per cubic metre | 1 | 1 | ≤0.013 | 5 | | | |
| Oct-18 | 29/11/2018 | Hydrogen chloride | milligrams per cubic metre | 1 | 1 | 21.0 | 100 | | | |
| Oct-18 | 29/11/2018 | Mercury | milligrams per cubic metre | 1 | 1 | 0.00037 | 1.0 | | | |
| Oct-18 | 29/11/2018 | Nitrogen oxides | milligrams per cubic metre | 1 | 1 | 540 | 1500 | | | |
| Oct-18 | 29/11/2018 | Solid particles | milligrams per cubic metre | 1 | 1 | 16.0 | 100 | | | |
| Oct-18 | 29/11/2018 | Sulfuric acid mist and sulfur trioxide | milligrams per cubic metre | 1 | 1 | 0.900 | 100 | | | |
| Oct-18 | 29/11/2018 | Sulphur dioxide | milligrams per cubic metre | 1 | 1 | 1100 | | | | |
| Oct-18 | 29/11/2018 | Total fluoride | milligrams per cubic metre | 1 | 1 | 11.0 | 50 | | | |
| Oct-18 | 29/11/2018 | Volatile organic compounds | milligrams per cubic metre | 1 | 1 | <0.2 | | | | |
| Comments: Monitoring of emission from each of the 4 boilers for the substances in this table is required annually. | | | | | | | | | | |

Monthly Data Summary

Discharge & Monitoring Point 12

Discharge to waters <301204 East 6416350 North> Update

Liddell Outfall Canal

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|---------------------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| MARCH 2019 | 10/04/2019 | Ammonia | milligrams per litre | Fortnightly | 2 | 0.05 | 0.055 | 0.06 | - |
| MARCH 2019 | 10/04/2019 | Antimony | milligrams per litre | Fortnightly | 2 | 0.009 | 0.0095 | 0.01 | |
| MARCH 2019 | 10/04/2019 | Arsenic | milligrams per litre | Fortnightly | 2 | 0.008 | 0.0085 | 0.009 | - |
| MARCH 2019 | 10/04/2019 | Barium | milligrams per litre | Fortnightly | 2 | 0.105 | 0.108 | 0.111 | |
| MARCH 2019 | 10/04/2019 | Beryllium | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Boron | milligrams per litre | Fortnightly | 2 | 1.3 | 1.335 | 1.37 | |
| MARCH 2019 | 10/04/2019 | Cadmium | milligrams per litre | Fortnightly | 2 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Chlorine | milligrams per litre | Fortnightly | 2 | 0.1 | 0.1 | 0.1 | |
| MARCH 2019 | 10/04/2019 | Chromium | milligrams per litre | Fortnightly | 2 | <0.01 | 0.005 | <0.01 | - |
| MARCH 2019 | 10/04/2019 | Chromium (total) | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | |
| MARCH 2019 | 10/04/2019 | Cobalt | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Conductivity | uS/cm | Fortnightly | 2 | 2860.0 | 2865.0 | 2870.0 | |
| MARCH 2019 | 10/04/2019 | Copper | milligrams per litre | Fortnightly | 2 | 0.003 | 0.003 | 0.003 | - |
| MARCH 2019 | 10/04/2019 | Flouride | milligrams per litre | Fortnightly | 2 | 0.899 | 1.2995 | 1.7 | |
| MARCH 2019 | 10/04/2019 | Lead | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Manganese | milligrams per litre | Fortnightly | 2 | 0.01 | 0.0145 | 0.019 | |
| MARCH 2019 | 10/04/2019 | Mercury | milligrams per litre | Fortnightly | 2 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Methylene Blue Active Substance | milligrams per litre | Fortnightly | 2 | <0.1 | 0.05 | <0.1 | |
| MARCH 2019 | 10/04/2019 | Molybdenum | milligrams per litre | Fortnightly | 2 | 0.123 | 0.1255 | 0.128 | - |
| MARCH 2019 | 10/04/2019 | Nickel | milligrams per litre | Fortnightly | 2 | 0.004 | 0.0045 | 0.005 | |
| MARCH 2019 | 10/04/2019 | Nitrogen (total) | milligrams per litre | Fortnightly | 2 | 0.3 | 0.4 | 0.5 | - |
| MARCH 2019 | 10/04/2019 | Oil and Grease | milligrams per litre | Weekly | 4 | <5 | 2.5 | <5 | |
| MARCH 2019 | 10/04/2019 | pH | pH Units | Daily | 31 | 8.1 | 8.5 | 8.6 | - |
| MARCH 2019 | 10/04/2019 | Phosphorus | milligrams per litre | Fortnightly | 2 | 0.03 | 0.03 | 0.03 | |

Monthly Data Summary

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|------------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| MARCH 2019 | 10/04/2019 | Selenium | milligrams per litre | Fortnightly | 2 | <0.01 | 0.005 | <0.01 | - |
| MARCH 2019 | 10/04/2019 | Sulfur | milligrams per litre | Fortnightly | 2 | 699 | 706.5 | 714 | |
| MARCH 2019 | 10/04/2019 | Temperature | milligrams per litre | Fortnightly | 2 | 31.6 | 31.95 | 32.3 | |
| MARCH 2019 | 10/04/2019 | Tin | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Total Dissolved Solids | milligrams per litre | Fortnightly | 2 | 1690 | 1770 | 1850 | |
| MARCH 2019 | 10/04/2019 | Total Organic Carbon | milligrams per litre | Fortnightly | 2 | 7 | 7.5 | 8 | - |
| MARCH 2019 | 10/04/2019 | TSS | milligrams per litre | Fortnightly | 2 | 2 | 3 | 4 | |
| MARCH 2019 | 10/04/2019 | Vanadium | milligrams per litre | Fortnightly | 2 | 0.02 | 0.02 | 0.02 | - |
| MARCH 2019 | 10/04/2019 | Zinc | milligrams per litre | Fortnightly | 2 | <0.005 | 0.0025 | <0.005 | |
| Comments | | | | | | | | | |

Monthly Data Summary

| Comments | | | | | | | | | |
|--|---------------------|---------------------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| Discharge & Monitoring Point 13 | | | | | | | | | |
| Discharge to waters <301204 East 6416350 North> Update | | | | | | | | | |
| Liddell Oil and Grit Trap | | | | | | | | | |
| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
| MARCH 2019 | 10/04/2019 | Ammonia | milligrams per litre | Fortnightly | 2 | 0.05 | 0.08 | 0.11 | - |
| MARCH 2019 | 10/04/2019 | Antimony | milligrams per litre | Fortnightly | 2 | 0.009 | 0.0095 | 0.01 | |
| MARCH 2019 | 10/04/2019 | Arsenic | milligrams per litre | Fortnightly | 2 | 0.008 | 0.0135 | 0.019 | - |
| MARCH 2019 | 10/04/2019 | Barium | milligrams per litre | Fortnightly | 2 | 0.102 | 0.113 | 0.124 | |
| MARCH 2019 | 10/04/2019 | Beryllium | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Boron | milligrams per litre | Fortnightly | 2 | 1.24 | 1.33 | 1.42 | |
| MARCH 2019 | 10/04/2019 | Cadmium | milligrams per litre | Fortnightly | 2 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Chlorine | milligrams per litre | Fortnightly | 2 | 0.09 | 0.095 | 0.1 | |
| MARCH 2019 | 10/04/2019 | Chromium | milligrams per litre | Fortnightly | 2 | <0.01 | 0.005 | <0.01 | - |
| MARCH 2019 | 10/04/2019 | Chromium (total) | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | |
| MARCH 2019 | 10/04/2019 | Cobalt | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Conductivity | uS/cm | Fortnightly | 2 | 2730.0 | 2735.0 | 2740.0 | |
| MARCH 2019 | 10/04/2019 | Copper | milligrams per litre | Fortnightly | 2 | 0.002 | 0.0025 | 0.003 | - |
| MARCH 2019 | 10/04/2019 | Flouride | milligrams per litre | Fortnightly | 2 | 0.936 | 1.313 | 1.69 | |
| MARCH 2019 | 10/04/2019 | Lead | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Manganese | milligrams per litre | Fortnightly | 2 | 0.011 | 0.0175 | 0.024 | |
| MARCH 2019 | 10/04/2019 | Mercury | milligrams per litre | Fortnightly | 2 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Methylene Blue Active Substance | milligrams per litre | Fortnightly | 2 | <0.1 | 0.05 | <0.1 | |
| MARCH 2019 | 10/04/2019 | Molybdenum | milligrams per litre | Fortnightly | 2 | 0.117 | 0.13 | 0.143 | - |
| MARCH 2019 | 10/04/2019 | Nickel | milligrams per litre | Fortnightly | 2 | 0.004 | 0.0045 | 0.005 | |
| MARCH 2019 | 10/04/2019 | Nitrogen (total) | milligrams per litre | Fortnightly | 2 | 0.4 | 0.7 | 1 | - |
| MARCH 2019 | 10/04/2019 | Oil and Grease | milligrams per litre | Weekly | 4 | <5 | 2.5 | <5 | |
| MARCH 2019 | 10/04/2019 | pH | pH Units | Daily | 31 | 7.7 | 8.438709677 | 8.8 | - |

Monthly Data Summary

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|------------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| MARCH 2019 | 10/04/2019 | Phosphorus | milligrams per litre | Fortnightly | 2 | 0.03 | 0.055 | 0.08 | |
| MARCH 2019 | 10/04/2019 | Selenium | milligrams per litre | Fortnightly | 2 | <0.01 | 0.005 | <0.01 | - |
| MARCH 2019 | 10/04/2019 | Sulfur | milligrams per litre | Fortnightly | 2 | 636 | 692 | 748 | |
| MARCH 2019 | 10/04/2019 | Temperature | milligrams per litre | Fortnightly | 2 | 26.4 | 27.25 | 28.1 | |
| MARCH 2019 | 10/04/2019 | Tin | milligrams per litre | Fortnightly | 2 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Total Dissolved Solids | milligrams per litre | Fortnightly | 2 | 1720 | 1725 | 1730 | |
| MARCH 2019 | 10/04/2019 | Total Organic Carbon | milligrams per litre | Fortnightly | 2 | 7 | 9.5 | 12 | - |
| MARCH 2019 | 10/04/2019 | TSS | milligrams per litre | Fortnightly | 2 | 3 | 31.5 | 60 | |
| MARCH 2019 | 10/04/2019 | Vanadium | milligrams per litre | Fortnightly | 2 | 0.02 | 0.025 | 0.03 | - |
| MARCH 2019 | 10/04/2019 | Zinc | milligrams per litre | Fortnightly | 2 | <0.005 | 0.0025 | <0.005 | |
| Comments | | | | | | | | | |

Discharge & Monitoring Point 14

Discharge to waters <301204 East 6416350 North> Update

The skimmer dam overflow spillway, located at the left abutment of the skimmer dam.

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|------------------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| MARCH 2019 | 10/04/2019 | Arsenic | milligrams per litre | Weekly | 4 | 0.034 | 0.04525 | 0.055 | - |
| MARCH 2019 | 10/04/2019 | Boron | milligrams per litre | Weekly | 4 | 1.79 | 2.03 | 2.19 | |
| MARCH 2019 | 10/04/2019 | Cadmium | milligrams per litre | Weekly | 4 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Chromium | milligrams per litre | Weekly | 4 | <0.01 | 0.005 | <0.01 | - |
| MARCH 2019 | 10/04/2019 | Chromium (total) | milligrams per litre | Weekly | 4 | <0.001 | 0.001375 | 0.002 | |
| MARCH 2019 | 10/04/2019 | Conductivity | uS/cm | Weekly | 4 | 3080.0 | 3092.5 | 3230.0 | |
| MARCH 2019 | 10/04/2019 | Copper | milligrams per litre | Weekly | 4 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Flouride | milligrams per litre | Weekly | 4 | 2.4 | 2.6 | 2.9 | |
| MARCH 2019 | 10/04/2019 | Lead | milligrams per litre | Weekly | 4 | <0.001 | 0.0005 | <0.001 | - |
| MARCH 2019 | 10/04/2019 | Mercury | milligrams per litre | Weekly | 4 | <0.0001 | 0.00005 | <0.0001 | - |
| MARCH 2019 | 10/04/2019 | Oil and Grease | milligrams per litre | Weekly | 4 | <5 | 2.5 | <5 | |

Monthly Data Summary

| Month | Date of Publication | Pollutant | Unit of measure | Sampling / measurement frequency | Samples collected and analysed | Lowest sample value | Mean of samples | Highest sample value | EPL Limit |
|------------|---------------------|-----------|----------------------|----------------------------------|--------------------------------|---------------------|-----------------|----------------------|-----------|
| MARCH 2019 | 10/04/2019 | pH | pH Units | Weekly | 4 | 8.0 | 8.1 | 8.2 | - |
| MARCH 2019 | 10/04/2019 | Selenium | milligrams per litre | Weekly | 4 | 0.02 | 0.0225 | 0.03 | - |
| MARCH 2019 | 10/04/2019 | TSS | milligrams per litre | Weekly | 4 | 4 | 5.25 | 6 | |
| MARCH 2019 | 10/04/2019 | Zinc | milligrams per litre | Weekly | 4 | <0.005 | 0.0025 | <0.005 | |
| Comments | | | | | | | | | |

Monthly Data Summary

Details of Non-Compliance with Licence

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 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

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