

Permit Number: EPR/BB3790FX

Operator: ALUK (GB) Limited

Facility: Chepstow Aluminium Treatment Plant

Form Number: Air1 / 24/06/20

**Reporting of emissions to air for the period from 01/01/2020 to 31/12/2020**

| Emission Point | Substance / Parameter   | Emission              |                              | Result <sup>[1]</sup> | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup> |
|----------------|---|-----------------------|------------------------------|-----------------------|----------------------------|--------------------------------------|----------------------------|
|                |   | Limit Value           | Reference Period             |                       |                            |                                      |                            |
| A1             | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 70 mg/m <sup>3</sup>  | Periodic (average over hour) | 0.09mg/m <sup>3</sup> | BS EN 14792: 2017          | 20/10/2020 11.45 – 12.45             | 6%                         |
| A1             | Sulphur dioxide   | 25 mg/m <sup>3</sup>  | Periodic (average over hour) | 0.71mg/m <sup>3</sup> | BS EN 14791:2017           | 20/10/2020 13.10 – 14.12             | 13%                        |
| A1             | Particulate matter  | 25 mg/m <sup>3</sup>  | Periodic (average over hour) | .53mg/m <sup>3</sup>  | BS EN 13284-1:2017 & MID   | 20/10/2020 13.10 – 14.12             | 85%                        |
| A1             | Hydrogen fluoride   | 2.0 mg/m <sup>3</sup> | Periodic (average over hour) | 0.03mg/m <sup>3</sup> | BS ISO 15713:2006 & MID    | 20/10/2020 11.30 – 12.30             | 13%                        |
| A2             | Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> ) | 70 mg/m <sup>3</sup>  | Periodic (average over hour) | 0.17mg/m <sup>3</sup> | BS EN 14792: 2017          | 19/10/2020 13.45 – 14.45             | 6%                         |
| A2             | Sulphur dioxide   | 25 mg/m <sup>3</sup>  | Periodic (average over hour) | 5.55mg/m <sup>3</sup> | BS EN 14791:2017           | 19/10/2020 13.00-14.02               | 13%                        |
| A2             | Particulate matter  | 25 mg/m <sup>3</sup>  | Periodic (average over hour) | 0.71mg/m <sup>3</sup> | BS EN 13284-1:2017 & MID   | 19/10/2020 13.00 – 14.02             | 59%                        |
| A2             | Hydrogen fluoride   | 2.0 mg/m <sup>3</sup> | Periodic (average over hour) | 0.03mg/m <sup>3</sup> | BS ISO 15713:2006 & MID    | 19/10/2020 14.25 – 15.25             | 13%                        |

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....Toby Ambler.....

Date.....25/01/2021.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/BB3790FX Operator: ALUK (GB) Limited

Facility: Chepstow Aluminium Treatment Plant Form Number: Water1 / 24/06/20

**Reporting of emissions to sewer for the period from 01/10/2020 to 31/12/2020**

| Emission Point | Substance / Parameter | Emission             |                  | Result <sup>[1]</sup> | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup> |
|----------------|-----------------------|----------------------|------------------|-----------------------|----------------------------|--------------------------------------|----------------------------|
|                |                       | Limit Value          | Reference Period |                       |                            |                                      |                            |
| W1             | Oil and grease        | None visible         | Spot sample      | None visible          | Visual inspection          | 17/11/2020 08.05                     |                            |
| W1             | pH                    | Minimum 6, Maximum 9 | Spot Sample      | Max 7.82<br>Min 6.82  | SCA Blue book 14           | 04/11/2020 08.20<br>23/11/2020 07.35 | 3%                         |
| W2             | Oil and grease        | None visible         | Spot Sample      | None visible          | Visual inspection          | 17/11/2020 08.05                     |                            |
| W2             | pH                    | Minimum 6, Maximum 9 | Spot sample      | Max 7.65<br>Min 6.78  | SCA Blue book 14           | 19/10/2020 12.30<br>23/11/2020 07.35 | 2%                         |

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... *Toby Ambler* .....

Date.....*25/01/2021*.....

(Authorised to sign as representative of Operator)

Permit Number: EPR/BB3790FX Operator: ALUK (GB) Limited

Facility: Chepstow Aluminium Treatment Plant Form Number: Sewer1 / 24/06/20

**Reporting of emissions to sewer for the period from 01/10/2020 to 31/12/2020**

| Emission Point | Substance / Parameter | Emission                |                   | Result <sup>[1]</sup>     | Test Method <sup>[2]</sup> | Sample Date and Times <sup>[3]</sup> | Uncertainty <sup>[4]</sup> |
|----------------|-----------------------|-------------------------|-------------------|---------------------------|----------------------------|--------------------------------------|----------------------------|
|                |                       | Limit Value             | Reference Period  |                           |                            |                                      |                            |
| S1             | Aluminium             | 2.0 mg/L                | Weekly Average    | 3.693mg/L                 | AI analyser                | 09/12/2020 15.11                     | 1.9%                       |
| S1             | Flow                  | 144 m <sup>3</sup> /day | Daily flow        | 13.29 m <sup>3</sup> /day | Flow Meter                 | Flow Average                         | 31%                        |
| S1             | pH                    | Minimum 6, Maximum 9    | Daily Max and min | Max 7.82<br>Min 7.22      | SCA Blue book 14           | 19/10/2020 12.30<br>06/10/2020 09.45 | .32%                       |

[5] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[6] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[7] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[8] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... *Toby Ambler* .....

Date.....*25/01/2021*.....

(Authorised to sign as representative of Operator)

Permit Number:       EPR/BB3790FX                           Operator:               ALUK (GB) Limited  
 Facility:               Chepstow Aluminium Treatment Plant           Form Number:       WaterUsage1 / 24/06/20

**Reporting of Water Usage for the year 2020**

| Water Source      | Usage (m <sup>3</sup> /year) | Specific Usage (m <sup>3</sup> /tonne output) |
|-------------------|------------------------------|---|
| TOTAL WATER USAGE | 26,127 m <sup>3</sup> /year  | 6.957m <sup>3</sup> /tonnes output            |

Operator's comments:

Finished Product: 3,755,150kg div by 1000 = 3755.15 tonnes

26127 m<sup>3</sup> div by 3755.15t = 6.957 = 6.957m<sup>3</sup>/tonnes output

Tonnes used instead of units as a metric to normalise the variation in profile size and weight

Signed ..... *Toby Ambler* .....

Date.....*25/01/2021*.....

(authorised to sign as representative of Operator)



Permit Number:       EPR/BB3790FX                           Operator:               ALUK (GB) Limited

Facility:               Chepstow Aluminium Treatment Plant           Form Number:       Performance1 / 24/06/20

**Reporting of other performance indicators for the period 01/01/2020 to 31/12/2020**

| Parameter                 | Result         |
|---------------------------|----------------|
| Finished Product (Tonnes) | 3755.15 tonnes |
| Waste Produced (Tonnes)   | 428.4 tonnes   |

Operator's comments:  
  
Finished Product: 3,755,150kg div by 1000 = 3755.15 tonnes  
Waste Produced: 428.4 tonnes

Signed ..... *Toby Ambler* .....

Date.....*25/01/2021*.....

(Authorised to sign as representative of Operator)