

Permit Number: EPR/BV7460ID

Operator:

Newport Wafer Fab Limited

Facility: Newport Semiconductor Plant

Form Number:

Water1 / 14/09/2020

**Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2021 to 30/06/2021**

| Emission Point | Substance / Parameter | Emission Limit Value   |                        | Reference Period | Result [1]           | Test Method [2]   | Sample Date and Times [3]                                    | Uncertainty [4] |
|----------------|-----------------------|------------------------|------------------------|------------------|----------------------|---|--|-----------------|
|                |                       | None visible           | Minimum 6<br>Maximum 9 |                  |                      |   |  |                 |
| W1             | Oil and grease        | None visible           |                        | Spot sample      | None visible         | Visual check  | Weekly checks, no evidence of oil or grease seen at any time | N/A             |
|                | pH                    | Minimum 6<br>Maximum 9 |                        | Spot sample      | Min. 6.0<br>Max. 6.9 | SCA Blue Book 14 ISBN 0117514284 or as agreed in writing with Natural Resources Wales | Numerous instances of each – continuous log                  | ±pH0.05         |

**Notes:**

[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.

[5] For 95 % of all measured values according to look up table

[6] For pH, figures known to relate to times where maintenance was being carried out (pH probe buffering) have been excluded as these are not true readings

Signed ..... Date 19/7/21  
(Authorised to sign as representative of Operator)

Permit Number: EPR/BV7460ID

Operator:

Newport Water Fab Limited

Facility: Newport Semiconductor Plant

Form Number:

Sewer1 / 14/09/2020

**Reporting of emissions to sewer for the period from 01/01/2021 to 30/06/2021**

| Emission Point | Emission               |              | Reference Period                     | Result [1]                     | Test Method [2]                                   | Sample Date and Times [3]  | Uncertainty [4]  |
|----------------|------------------------|--------------|--------------------------------------|--------------------------------|---|--|------------------|
|                | Substance / Parameter  | Limit Value  |                                      |                                |   |  |                  |
| S1             | Suspended solids       | No limit set | Spot sample                          | Min. 7 mg/l<br>Max. 51 mg/l    | BS EN 872,<br>BS 6068-2:54                        | 22 <sup>nd</sup> Feb 2021 @ 12.22<br>1 <sup>st</sup> June 2021 @ 12.24 | Not Known        |
|                | Chemical oxygen demand | No limit set | Spot sample                          | Min. 50 mg/l<br>Max. 85 mg/l   | BS 6068-2:34                                      | 1 <sup>st</sup> Jun 2021 @ 12.24<br>5 <sup>th</sup> Jan 2021 @ 11.00   | Not Known        |
|                | Flow                   | No limit set | Continuous reported as daily average | Ave. 43.08 m <sup>3</sup> /hr  | As agreed in writing with Natural Resources Wales | N/A - average  | ±4.37% (MCER TS) |
|                | Copper                 | No limit set | Spot sample                          | <0.1 mg/l                      | BS EN ISO 15586:2003,<br>BS 6068-2:84:2003        | All samples <0.1 mg/l  | Not known        |
|                | Nickel                 | No limit set | Spot sample                          | <0.1 mg/l                      | BS 6068-2:29,<br>ISO 8288                         | All samples <0.1 mg/l  | Not known        |
|                | Zinc                   | No limit set | Spot sample                          | <0.1 mg/l                      | BS 6068-2:29,<br>ISO 8288                         | All samples <0.1 mg/l  | Not known        |
|                | Chromium               | No limit set | Spot sample                          | <0.1 mg/l                      | BS EN 1233,<br>BS 6068-2:38,<br>ISO 11063         | All samples <0.1 mg/l  | Not known        |
|                | Sulphate               | No limit set | Spot sample                          | Min. 150 mg/l<br>Max. 689 mg/l | SCA Blue Book 136 ISBN 0117522406                 | 22 <sup>nd</sup> Feb 2021 @ 12.22<br>1 <sup>st</sup> June 2021 @ 12.24 | Not known        |

| Emission       |                       | Reference Period         | Result [1]   | Test Method [2]  | Sample Date and Times [3]   | Uncertainty [4] |
|----------------|-----------------------|--------------------------|--|--|---|-----------------|
| Emission Point | Substance / Parameter |                          |  |  |   |                 |
|                | pH                    | Minimum 6,<br>Maximum 11 | Continuous reported as maximum and minimum over reporting period<br><br>Min 6.01<br>Max 9.85 | SCA Blue Book 14 ISBN 0117514284 or agreed in writing with Natural Resources Wales | 17 <sup>th</sup> May 2021 @ 07.09<br>6 <sup>th</sup> Jan 2021 @ 13.48 | ±pH0.05         |

**Notes:**

[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. Where uncertainty figures are 'not known' this is because the analysis is carried out by Welsh Water and they do not provide uncertainty information

[5] For 95 % of all measured values according to look up table

[6] For pH, figures known to relate to times where maintenance was being carried out (pH probe buffering) have been excluded as these are not true readings

Signed .....  
  
 (Authorised to sign as representative of Operator)  
 Date.....19/7/21.....

