

#### Government of Western Australia Department of Water and Environmental Regulation

# **Annual Audit Compliance Report Form**

Environmental Protection Act 1986, Part V Division 3

Once completed, please submit this form either via email to <u>info@dwer.wa.gov.au</u>, or to the below postal address:

Department of Water and Environmental Regulation Locked Bag 10 Joondalup DC WA 6919

| Section A – Licence details  |                                       |                      |                 |  |
|------------------------------|---------------------------------------|----------------------|-----------------|--|
| Licence number:              | L6217/1983/15                         | Licence file number: | 2012/007237-7~2 |  |
| Licence holder name:         | Alcoa of Australia Limited            |                      |                 |  |
| Trading as:                  | Alcoa of Australia Limited            |                      |                 |  |
| ACN:                         | 004 879 298                           |                      |                 |  |
| Registered business address: | 181-205 Davy Street BOORAGOON WA 6154 |                      |                 |  |
| Reporting period:            | 01 / 01 / 2023 <b>to</b>              | 31 / 12 / 2023       |                 |  |

## Section B – Statement of compliance with licence conditions

Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)

 $\Box$  Yes – please complete:

- section C;
- section D (if required); and
- sign the declaration in Section F.

 $\boxtimes$  No – please complete:

- section C:
- section D (if required);
- section E; and
- sign the declaration in Section F.

# Section C – Statement of actual production

Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.

| Prescribed premises category   | Actual production quantity   |  |  |
|--|--|--|--|
| *Refer to Attachment 1 for supporting documentation for the below quantities |  |  |  |
| Category 46 – Bauxite refinery   | 2,551,674 tonnes of refined alumina  |  |  |
| Category 52 – Electric Power Generation                                      | 651,313 MWhr total or average 74.35MW per day of power generated using natural gas |  |  |
| Category 64 – Class II or III putrescible landfill site                      | 618 Tonnes to Class II landfill  |  |  |
| Category 67 – Fuel burning   | 39,863 kg/hr (natural gas with Sulphur content less than or more than 0.25%)       |  |  |

|   | ement of actual Part                              |  |  |  |
|---|---|--|--|--|
| Provide the actual F documentation is to                            | 8   | quantity for this reporting                                  | period. Supporting                                       |  |
| Prescribed premises category Actual Part 2 waste discharge quantity |   |  |  |  |
| *Refer to Attachment 1  | for supporting documentatic                       | on for the below quantities                                  |  |  |
| Category 46 - Baux  | ite refinery                                      | 5,315,764 tonnes   | of bauxite residue (tailings)                            |  |
| Continue E Doto   |   |  |  |  |
| Section E – Deta  | lis of non-complian                               | ce with licence conditi                                      |  |  |
| Condition no:   | W3(a)   | Date(s) of non-<br>compliance:                               | 1-5 February 2023<br>25 April 2023                       |  |
| Details of non-comp   | bliance:  |  |  |  |
| condition W3(a) for<br>• pH, Electric                               | the following analytes;<br>cal Conductivity and N |  |  |  |
| sampling, no flow w<br>Unfortunately, on th                         | as detected at SP12 d<br>is date the sampler wa   | luring their visit, except for<br>as not equipped to perform | the site visit on 28/02/2023.                            |  |
| What was the actua  | I (or suspected) envirc                           | onmental impact of the nor                                   | n-compliance?  |  |
| <b>NOTE</b> – please attach compliance took place                   |   | ovide insight into the precise                               | location of where the non-                               |  |
|   | has identified engineer                           | rom the samples not being<br>ring and procedural improv      | g collected as flows were<br>/ements that will prevent a |  |
| Cause (or suspecte  | d cause) of non-compl                             | liance:  |  |  |
| Administrative error  |   |  |  |  |
| Action taken to mition non-compliance:                              | gate any adverse effec                            | ts of non-compliance and                                     | prevent recurrence of the                                |  |
|   | engineering controls in will prevent a reoccurre  | nstallation of online flow mence of this event.              | neter and procedural                                     |  |
| Was this non-comp   |   |  |  |  |
|   | liance previously repor                           | ted to DWER?   |  |  |
|   | liance previously repor                           | ted to DWER?   |  |  |
| Yes, and  | liance previously repor                           | ted to DWER?   | Date:  |  |

| Section E – Details of non-compliance with licence condition   |               |                                   |                            |
|--|---------------|-----------------------------------|----------------------------|
| Condition no:  | A19b          | Date(s) of<br>non-<br>compliance: | 1 April – 31 December 2023 |
| Details of non-com   | pliance:      |                                   |                            |
| Condition A19(b) requires Alcoa to ensure that all sampling and analysis undertaken pursuant to conditions A22(a) A23(a), A23(b) and A25(a). During Quarters 2,3 and 4 of 2023, stack air sample analysis undertaken pursuant to conditions A23(a), A23(b) and A25(a) of the Licence could not be carried out in accordance with condition A19(b).   |               |                                   |                            |
| In relation to Q2 sampling tests in accordance with NATA certification could not be preformed by MPL Laboratories due to testing equipment failure. As a result, these samples were split between two laboratories for the completion of testing. Both laboratories hold NATA certification however are not accredited for the accepted testing methodology.   |               |                                   |                            |
| <ul> <li>Alcoa confirms that during the Quarter 2,3 and 4 2023 stack monitoring program: <ul> <li>All samples were collected using the Approved SW-846 Test Method;</li> <li>Alcoa's stack sampling contractor held (and currently holds) NATA accreditation for the sample collection; and</li> <li>Alcoa also confirms that analysis was undertaken using an HPLC 8315 method or another appropriate technique.</li> </ul> </li> </ul> |               |                                   |                            |
| Alcoa has sought recommendation from its stack sampling contractor on the most suitable option for analysis of the Aldehyde and Ketone samples at this time. The stack sampling contractor has recommended that the samples be analysed by Leeder Analytical utilising their inhouse Modified HPLC 8315 Method LA-115, whilst their NATA accreditation is pending.   |               |                                   |                            |
| What was the actual (or suspected) environmental impact of the non-compliance?   |               |                                   |                            |
| <b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-<br>compliance took place.  |               |                                   |                            |
| Alcoa confirms that there is no known environmental impact resulting from the non-conformance and as such no corrective actions are required to mitigate impacts.  |               |                                   |                            |
| Cause (or suspected cause) of non-compliance:  |               |                                   |                            |
| Contractual availability of Laboratory with NATA accreditation for specific Aldehyde and Ketone<br>Analysis  |               |                                   |                            |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:   |               |                                   |                            |
| Note that Leeder Analytical have received NATA accreditation for HPLC 8315 Method LA-115 06/03/2024.   |               |                                   |                            |
| Was this non-compliance previously reported to DWER?   |               |                                   |                            |
| Yes, and   |               |                                   |                            |
| Reported to  | DWER verbally |                                   | Date:                      |
| Reported to DWER in writing Date: 23/10/2023   |               |                                   | Date: 23/10/2023           |

| Section E – Deta   |   | Date(s) of  |  |
|--|---|---|--|
| Condition no:  | A3  | non-<br>compliance:   | 02/10/2023   |
| Details of non-com   | oliance:  |   |  |
|  | erational exhaust g   | as exit velocity  | th Condtion A3 namely the failure to ensure<br>y of 12 metres per second is maintained for<br>ndition A25(a).  |
| What was the actua   | al (or suspected) en  | vironmental im  | pact of the non-compliance?  |
| <b>NOTE</b> – please atta<br>non-compliance too  |   | ms to provide i   | nsight into the precise location of where the  |
| Alcoa confirms that there are partial emissions to the atmosphere, which may result in minor localised odours. When the Kiln is offline, all emissions from the passive capture system follow the designed reporting process to atmosphere. Additionally, it should be noted that direct feed to the Kiln has effectively destroyed volatile organic compounds (VOCs), and the Kiln stack emissions remain within the specified license limits.  |   |   |  |
| Cause (or suspecte   | ed cause) of non-co   | mpliance:   |  |
| at the stack exit point<br>for the duration of t<br>odour which was sat<br>Post sampling unst<br>of service on the 4 <sup>th</sup><br>has identified a rest  | nt, identified a stack<br>he sampling. This of<br>ampled on a different<br>able conditions we<br>of October. Investion<br>riction around the fo | k exit velocity k<br>condition was p<br>nt day and had<br>re identified an<br>gations into the<br>orced draft fan | used as the inputs into a calculated velocity<br>between 11.02 and 11.33 metres per second<br>present for all sampling with the exception of<br>velocity >12m/s.<br>Ind subsequently the Kiln was then taken out<br>ase unstable conditions by process engineers<br>and the likely cause in reduced velocity. The<br>proce rectification had been completed. |
| Please be aware that, in accordance with Condition 19a, sampling must adhere to the Australian Standard AS4323.1-1995 where practicable. This standard allows a minimum of <b>three metres per second (3/ms) recorded within the sampling process</b> to ensure compliance. All tests conducted met the requirements specified by this standard, however when assessing compliance with Condition A3, these velocities are calculated as mentioned above. Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: |   |   |  |
| Immediate controls put in place to ensure this condition does not reoccur is to calculate the stack exit velocity on the day of the sampling to ensure that the condition has been met prior to stack sampling commencing.   |   |   |  |
| sampling commend   |   |   |  |
| sampling commend<br>Was this non-comp  | -   | eported to DWE  | ER?  |
| · -  | -   | eported to DWE  | ER?  |
| Was this non-comp  | -   | eported to DWE  | ER?<br>Date:   |

# Section F – Declaration

## Department of Water and Environmental Regulation

I / We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular<sup>1</sup>.

I / We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.

| Signature <sup>2</sup> :         |                           | Signature:      |   |
|----------------------------------|---------------------------|-----------------|---|
| Name: (printed)                  |                           | Name: (printed) |   |
| Position:                        | Vice President Operations | Position:       | V.P. Asset Management<br>Asset Management<br>Administration |
| Date:                            | 22/03/2024                | Date:           | 22/03/2024  |
| Seal (if signing<br>under seal): |                           |                 |   |

<sup>&</sup>lt;sup>1</sup> It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.

<sup>&</sup>lt;sup>2</sup> AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.