

#### 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- compliance:	1-5 February 2023 25 April 2023	
Details of non-comp	bliance:			
condition W3(a) for • pH, Electric	the following analytes; cal Conductivity and N			
sampling, no flow w Unfortunately, on th	as detected at SP12 d is date the sampler wa	luring their visit, except for 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 ring and procedural improv	g collected as flows were /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 non- 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- 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 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- compliance:	02/10/2023
Details of non-com	oliance:		
	erational exhaust g	as exit velocity	th Condtion A3 namely the failure to ensure y of 12 metres per second is maintained for ndition A25(a).
What was the actua	al (or suspected) en	vironmental im	pact of the non-compliance?
<b>NOTE</b> – please atta 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 for the duration of t odour which was sat Post sampling unst of service on the 4 <sup>th</sup> has identified a rest	nt, identified a stack he sampling. This of ampled on a different able conditions we of October. Investion riction around the fo	k exit velocity k condition was p nt day and had re identified an gations into the orced draft fan	used as the inputs into a calculated velocity between 11.02 and 11.33 metres per second present for all sampling with the exception of velocity >12m/s. Ind subsequently the Kiln was then taken out ase unstable conditions by process engineers and the likely cause in reduced velocity. The 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 Was this non-comp	-	eported to DWE	ER?
· -	-	eported to DWE	ER?
Was this non-comp	-	eported to DWE	ER? 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 Asset Management Administration
Date:	22/03/2024	Date:	22/03/2024
Seal (if signing 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.